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Alberta
ENVIRONMENT

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ALBERTA
MISCELLANEOUS LAKE LEVEL DATA
1990

Prepared By:

Water Survey Section
Survey Branch
Technical Services Division

Submitted By:

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June 1991

92-03433/

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Published by the Water Resources Branch, Environment Canada. x

INTRODUCTION

Over the years Alberta Environment has collected lake level information at numerous lakes throughout the Province. In 1990, 236 lakes were monitored. Historically this information has been collected for internal use and filed in the Technical Services Division Records Centre. In an effort to present these data in a more convenient form, and make them available to more users, it was decided to produce an annual summary of the information gathered.

This data report contains all the lake level data collected by the Technical Services Division in 1990. Similar reports have been produced for the years 1978 through 1989.

It should be noted that continuous lake level data collected by Alberta Environment, Environment Canada and various contributing agencies are published separately by the Water Resources Branch, Environment Canada in their annual publication "Surface Water Data, Alberta". A list of these lakes is presented on pages x through xi.

Purpose and Method of Data Collection

Most of the lakes in this report are monitored to obtain an indication of maximum and minimum levels during the year. In order to do this, levels are obtained by means of an engineer's level referred to a local bench mark. Levels are checked in the winter, the late spring, mid-summer and the fall. In some cases more frequent observations are taken for a specific project. This is done by installing a staff gauge and hiring an observer to read the gauge. All readings taken either by level or staff gauge are actually instantaneous observations, but they are assumed to represent the mean water level for the day.

Presentation of Data

Most of the data presented are compiled by computer, using the MANUAL program obtained from Environment Canada. The use of this program is gratefully acknowledged. In 1990 for the first time the data collected in the Grande Prairie region was published using the software referred to as the "Miscellaneous Streamflow and Lake Level Program" (MSLL). Referring to Crystal Lake on page 101 for example, this station has been published using MSLL and gives much more complete information than the traditional format used for the lakes run outside of the Grande Prairie region. Starting in 1991 MSLL will be used for the publication of all lake level stations run by the Water Survey Section.

The station numbering system adopted is the same as that used by Environment Canada. The first two numbers identify the major drainage basin in which the station is located and next two characters indicate the sub-basin, and the last three digits the number of the station. To avoid duplication of Environment

Canada numbers, all Alberta Environment station numbers start with a nine. The major drainage basins in Alberta are identified as follows:

05-Saskatchewan - Nelson River System
06-Churchill River System
07-Mackenzie River System
10-Liard River System
11-Missouri River System

The lakes are arranged in alphabetical order, a brief station description is followed by the data for the year.

A historical summary is included on each data page. This summary includes the maximum and minimum for the period of record including the current year.

Accuracy of Data

Lake levels have been referenced to geodetic datum wherever possible and while many of these bench marks have been verified in recent years, it has not been possible to run checks on all bench marks used. The relative fluctuation of water level is not in question. However, if it is important to the user that the absolute geodetic elevation of the lake be correct, it is suggested that the user contact the Technical Services Division at the address given on page iii whereupon an effort will be made to verify the accuracy of the bench mark used. It would be appreciated if any errors detected in geodetic elevations were brought to the attention of the Division.

The number of significant figures used in presenting the data has been standardized. It should not be assumed that the measurements were made with this degree of accuracy. The general practice is to read staff gauges to the nearest two millimetres.

All water levels given in this data report are in metric units. The approximate conversion to imperial units is as follows:

1 metre = 3.2804 feet

Further Information

It should be emphasized that this data report only contains data collected for one year, 1990. Similar reports have been produced for the years 1978 through 1989. In the Technical Services Division Records Centre there is a file for each station containing all the information collected over the years and more details on the exact location of the site. Anyone who requires more information on any of these stations is asked to contact:

Technical Services Division
Records Centre
11th Floor, Oxbridge Place
9820 - 106 Street
Edmonton, Alberta
T5K 2J6
Phone: 427-6298

The station description indicates whether or not a hydrographic map is available for a particular lake. These surveys have been carried out over a long period of time by several different agencies and using a variety of methods, therefore the quality of the product is highly variable. However, copies of these maps are available to the public from:

Maps Alberta
Energy and Natural Resources
2nd Floor, Petroleum Plaza, North Tower
9945 - 108 Street
Edmonton, Alberta
T5K 2G6
Telephone: 427 - 3520

LIST OF LAKE LEVEL STATIONS - 1990

STATION NAME	STATION NUMBER INDICATES DRAINAGE BASIN	PAGE NUMBER
Albright Lake near Demmitt	07FD903	1
Amisk Lake near Boyle	06AA902	3
Angling Lake near Grand Centre	06AD901	5
Anita Lake Near Innisfree	05EE925	7
Antler Lake near Tofield	05EB904	9
Astotin Lake near Fort Saskatchewan	05EB905	11
Battle Lake near Hoadley	05FA903	13
Bear Lake near Bellis	05ED901	15
Bear Lake near Clairmont	07GE004	17
Bear Lake near Edson	07AG901	19
Bearhills Lake near Wetaskiwin	05FA904	21
Beartrap Lake near Grand Centre	06AC914	23
Beauvais Lake near Pincher Creek	05AA901	25
Beauvallon Lake near Two Hills	05EE902	27
Beaverdam Lake near Cardston	05AE905	29
Beaverhill Lake near Tofield	05EB906	31
Beaver Mines Lake near Bellevue	05AA902	33
Ben's Lake near Two Hills	05EE903	35
Big Hay Lake near Hay Lakes	05FA905	37
Big Island Lake near Sherwood Park	05EB917	39
Big Lake near St. Albert	05EA902	41
Birch Lake near Glenevis	05EA903	43
Birch Lake near Innisfree	05EE904	45
Bittern Lake near Bittern Lake	05FA906	47
Black Duck Lake near Hines Creek	07FD915	49
Blackmud Lake at Marlboro	07AF901	51
Bonnie Lake near Vilna	05ED902	53
Borden Lake near Elk Point	05ED915	55
Bouchard Lake near Clyde	05EC915	57
Buck Lake near Drayton Valley	05DE901	59
Buffalo Lake near La Glace	07GE901	61
Burnstick Lake near Sundre	05CA903	63
Cache Lake near Hinton	07AC906	65
Cache Lake near Spedden	05ED903	67
Cadotte River at Outlet Cadotte Lake	07HB001	69
Camp Lake Near Kinsella	05FB901	71
Captain's Lake near Thorhild	05EC908	73
Cardinal Lake at Queen Elizabeth Prov Pk	07HA901	75
Chappell Lake near Ashmont	06AA903	77
Charlotte Lake near Bonnyville	06AC902	79
Chickakoo Lake near Stony Plain	05EA904	81
Chickenhill Lake near St. Paul	06AC903	83
Christina Lake near Conklin	07CE903	85
Clairmont Lake near Clairmont	07GE902	87

STATION NAME	STATION NUMBER INDICATES DRAINAGE BASIN	PAGE NUMBER
Clarke Lake near Kitscoty	05FE904	89
Claude Lake near Lac La Biche	07CA903	91
Clear Lake near Stavely	05AC901	93
Cow Lake near Rocky Mountain House	05DC902	95
Crimson Lake nr. Rocky Mountain House	05DC903	97
Crow Indian Lake near Skiff	05AF901	99
Crystal Lake near Grande Prairie	07GE903	101
Cutbank Lake near Wembley	07GE904	103
Cygnet Lake near Sylvan Lake	05CC901	105
Dakin Lake near Atmore	07CA904	107
Dapp Lake near Westlock	07BC903	109
Deep Lake near Grande Prairie	07GE905	111
Dillberry Lake near Wainwright	05GA901	113
Dimsdale Lake near Dimsdale	07GE918	115
Dunes Project near Bezanson	07GE919	117
Earlie Lake near Kitscoty	05FE903	119
Eccles Pond near Hinton	07AD901	121
Eden Lake near Beach Corner	05EA907	123
Fairfax Lake near Robb	07BA901	125
Ferguson Lake near Clairmont	07GE907	127
Fickle Lake near Edson	07AF903	129
Figure Eight Lake near Brownvale	07HA908	131
Fish Lake near Nordegg	05DC904	133
Flat Lake near Boyle	07CA905	135
Floatingstone Lake near Spedden	06AA904	137
Flood Lake near Chinook Valley	07HA905	139
Flyingshot Lake near Grande Prairie	07GE908	141
Footner Lake near High Level	07JF901	143
Fork Lake near Lac La Biche	06AA905	145
Freeman Lake near Swan Hills	07AH902	147
Frog Lake near Elk Point	05ED904	149
Gabriel Lake near Bentley	05CC902	151
Garner Lake near Spedden	06AA906	153
George Lake (East) near Hines Creek	07FD916	155
George Lake (West) near Hines Creek	07FD917	157
Gerry Lake near Hines Creek	07FD904	159
Ghost Lake near Athabasca	07BE903	161
Goldeye Lake near Nordegg	05DC905	163
Goodfare Lake near Goodfare	07GD901	165
Goodfish Lake near Vilna	06AA907	167
Goose Lake near Fort Assiniboine	07AH903	169
Gooseberry Lake near Consort	05GA904	171
Gosling Lake near Buck Lake	05CC903	173
Grande Cache Lake near Grande Cache	07GA901	175
Graveyard Lake near Hinton	07AC902	177

STATION NAME	STATION NUMBER INDICATES DRAINAGE BASIN	PAGE NUMBER
Gregg Lake near Hinton	07AC903	179
Gull Lake near Fort Vermilion	07HF902	181
Hanmore Lake near Smoky Lake	05EC901	183
Hasse Lake near Stony Plain	05EA908	185
Hay Lake near Fairview	07FD919	187
Helen Lake near Dixonville	07HA906	189
Hermit Lake near Grande Prairie	07GE909	191
Hilltop Lake near La Glace	07FD927	193
Hubbles Lake near Stony Plain	05EA915	195
Hughes Lake near Grande Prairie	07GE910	197
Hutch Lake near High Level	07OB901	199
Iosegun Lake near Fox Creek	07GG901	201
Ironwood Lake near Lac La Biche	06AA908	203
Island Lake near Athabasca	07BE904	205
Jackfish Lake near Rocky Mountain House	05DC906	207
Jackfish Lake near Stony Plain	05DE902	209
Jarvis Lake near Hinton	07AC904	211
Jessie Lake near Bonnyville	06AC906	213
Johnny's Lake near Stony Plain	05DE903	215
Joseph Lake near New Sarepta	05EB903	217
Kakut Lake near Rycroft	07GJ905	219
Kehiwin Lake near Bonnyville	06AC907	221
Keho Lake near Nobleford	05AC919	223
Kimiwan Lake at McLennan	07HA907	225
Kinky Lake near Hinton	07AD902	227
La Glace Lake near La Glace	07GE911	229
Lac Bellevue near St. Paul	05ED909	231
Lac Brosseau Near Two Hills	05ED914	233
Lac Saint Cyr near St. Paul	05ED910	235
Lac Sante near St. Paul	05ED911	237
Lake Newell near Brooks	05BN901	239
Last Lake near Whitelaw	07FD918	241
Laurier Lake near Heinsburg	05ED912	243
Lawrence Lake near Athabasca	07BE905	245
Lebeaus Lake near Westlock	07BE906	247
Leddy Lake near Chinook Valley	07FD925	249
Lees Lake near Pincher Creek	05AA903	251
Lessard Lake near Glenevis	05BB904	253
Linton Lake near La Crete	07HF901	255
Little Beaver Lake near Ferintosh	05FC901	257
Little Fish Lake near Drumheller	05CG901	259
Little McLeod (Pegasus) Lake near Whitcourt	07AH904	261
Lloyd Lake near Priddis	05BK901	263
Long Island Lake near Westlock	07BC901	265
Long Lake near Athabasca	07BC905	267
Long Lake near Barrhead	07BB913	269
Long Lake near Boyle	06AA909	271

STATION NAME	STATION NUMBER INDICATES DRAINAGE BASIN	PAGE NUMBER
Long Lake near Edson	07AG902	273
Lower Mann Lake near Ashmont	06AA910	275
Lower Therien Lake near St. Paul	05ED906	277
Magloire Lake near Falher	07GJ902	279
Majeau Lake near Glenevis	07BB905	281
Manatokan Lake near Iron River	06AC908	283
Manawan Lake near Legal	05EA911	285
Martin Lake near Hythe	07GE912	287
Matchayaw Lake near Stony Plain	05EA906	289
McLeod (Carson) Lake near Whitecourt	07AH901	291
Medicine Lake near Rimbey	05CC904	293
Mere Lake near Stony Plain	05EA912	295
Millers Lake near Marlboro	07AF902	297
Mink Lake near Carvel Corner	05DE904	299
Minnie Lake near Glendon	06AA916	301
Minnow Lake near Edson	07AG903	303
Missawawi Lake near Venice	06AA912	305
Mitsue Lake near Slave Lake	07BK901	307
Montagneuse (Stoney) Lake near Hines Creek	07FD920	309
Moonshine Lake @ Moonshine Lake Prov. Pk	07FD905	311
Moose Lake near Bonnyville	06AC911	313
Muir Lake near Spruce Grove	05EA913	315
Murdock Lake near Deadwood	07HC902	317
Musreau Lake near Grande Prairie	07GB901	319
Nakamun Lake near Onoway	07BB906	321
Narrow Lake near Athabasca	07BE911	323
North Buck Lake near Caslan	06AA913	325
Obed Lake near Hinton	07AD903	327
Oldman Lake near Glenevis	07BB907	329
Oliver Lake near New Sarepta	05EB908	331
Outpost Lake at Police Outpost Park	05AE902	333
Pakowki Lake near Medicine Hat	05AF902	335
Park Lake at Provincial Park	05AD902	337
Patricia Lake near Jasper	07AA901	339
Peanut Lake near Barrhead	07BB908	341
Pierre Greys Lakes (Lower) near Muskeg	07GA902	343
Pierre Greys Lakes (Middle) near Muskeg	07GA903	345
Pierre Greys Lakes (Upper) near Muskeg	07GA904	347
Pigeon Lake at Provincial Park	05FA908	349
Pine Lake near Pine Lake	05CE902	351
Pinehurst Lake near Lac La Biche	06AB901	353
Preston Lake near Demmitt	07GD904	355
Rat Lake near Donnelly	07GH905	357
Red Deer Lake near Ferintosh	05FA909	359
Ribstone Lake near Wainwright	05FD903	361

STATION NAME	STATION NUMBER INDICATES DRAINAGE BASIN	PAGE NUMBER
Rock Lake near Hinton	07AC905	363
Ross Lake near Magrath	05AE903	365
Rush Lake North Basin	05AF909	367
Rush Lake South Basin	05AF910	369
Sam Lake near Irvine	05AH910	371
Samson Lake near Hobbema	05FA910	373
Sandy Lake near Morinville	05EA914	375
Sandy Lake near Two Hills	05ED905	377
Sang (Surprise) Lake near Edson	07AG905	379
Saskatoon Lake near Grande Prairie	07GE913	381
Schuman Lake near Fort Assiniboine	07AH905	383
Section 9 Wetlands	05AF908	385
Severn Reservoir near Standard	05CE903	387
Shanks Lake near Del Bonita	11AA901	389
Shiningbank Lake near Peers	07AG904	391
Shooting Lake near Gadsby	05CF903	393
Shuster Lake near Wainwright	05DF902	395
Sibbald Lake near Sibbald Flats	05BH905	397
Sinclair Lake near Hythe	07GD902	399
Skeleton Lake near Boyle	06AA914	401
Smoke Lake near Fox Creek	07GG902	403
Smoky Lake near Warspite	05EC902	405
Snipe Lake near Valleyview	07GH901	407
South Heart Reservoir at Spillway #1 near McLennan	07BF909	409
Spotted Lake near Mirrow	05CD903	411
Spring Lake near Stony Plain	05EA905	413
Spruce Coulee Reservoir nr. Medicine Hat	11AB901	415
Square Lake near Lac La Biche	07CA906	417
Stafford Lake at Brooks	05CJ901	419
Star Lake near Carvel Corner	05DE905	421
Strubel Lake near Caroline	05DB901	423
Sulphur Lake near Dixonville	07HA909	425
Swan Lake near Rocky Mountain House	05DB902	427
Telford Lake at Leduc	05DF902	429
Thunder Lake near Barrhead	07BB909	431
Touchwood Lake near Lac La Biche	06AB902	433
Twin Lake #1 near Hoadley	05DE906	435
Twin Lake #2 near Hoadley	05DE907	437
Twin Lakes (East) near Keg River	07HC903	439
Tyrrell Lake near Warner	05AF903	441
Unnamed Lake below Spillway #2 near McLennan	07BF916	443
Updike Lake near Demmitt	07FD914	445
Upper Mann Lake near Ashmont	06AA911	447
Upper Therien Lake near St. Paul	05ED907	449

STATION NAME	STATION NUMBER INDICATES DRAINAGE BASIN	PAGE NUMBER
Vermilion River at Two Hills (Hwy #36)	05EE908	451
Vermilion River 4 miles West of Two Hills	05EE909	453
Vermilion River near Morecambe	05EE906	455
Vermilion River near Musidora	05EE907	457
Victor Lake near Grande Cache	07GA905	459
Vincent Lake near Ashmont	05ED913	461
Wakomao Lake near Clyde	05EC903	463
Watt Lake near Two Hills	05EE910	465
Wavy Lake near Strome	05FB902	467
Wembley Lake near Wembley	07GE914	469
Whitefish Lake near Vilna	06AA915	471
Whitford Lake near Vegreville	05EC904	473
Whitham Lake near Demmitt	07GD905	475
Whitney Lake near Elk Point	05ED908	477
Wildhorse Lake near Hinton	07AD904	479
Windsor Lake near Bashaw	05FA914	481
Wizard Lake near Leduc	05DF901	483
Wolf Lake near Bonnyville	06AB903	485
Wolf Lake near Edson	07AG906	487
Yellow Lake (Station 0)	05AJ901	489
Yoke Lake near Goodfare	07GD903	491

1990 LAKE AND RESERVOIR DATA

Published by the Water Resources Branch, Environment Canada.

Station Name	Station Number
Baptiste Lake near Athabasca	07BE002
Bare Creek Reservoir near Elkwater	11AB094
Barrier Lake near Seebe	05BF024
Bear Lake near Clairmont	07GE004
Beaver Lake at Ranger Station	06AA003
Berry Creek Reservoir near Sunnynook	05CH014
Bigelow Reservoir near Wimborne	05CE901
Brazeau Reservoir	05DD006
Buffalo Lake near Erskine	05CD005
Calling Lake at Ranger Station	07CB001
Cavan Lake near Dunmore	05AH048
Chain Lakes Reservoir near Nanton	05AB037
Chip Lake at Outlet to Lobstick River	07BB008
Coal Lake Reservoir near Wetaskiwin	05FA016
Cold Lake at Cold Lake	06AF002
Cooking Lake at Cooking Lake	05EB012
Cressday Reservoir near Cressday	11AB097
Driedmeat Lake at Outflow	05FA020
Elkwater Lake at Elkwater	05AH025
Ethel Lake near Cold Lake	06AC004
Fawcett Lake near Smith	07BK008
Forester Reservoir near Cessford	05CH013
Ghost Lake near Cochrane	05BE005
Glenmore Reservoir at Calgary	05BJ008
Greasewood Reservoir near Elkwater	11AB092
Gregoire Lake near Fort McMurray	07CE001
Gull Lake at Aspen Beach	05CC006
Hastings Lake near Deville	05EB011
Hilda Lake near Cold Lake	06AC003
Isle Lake at Eureka Beach	05EA008
Jaydot Reservoir near Jaydot	11AB098
Keho Lake near Nobleford	05AC919
Lac La Biche at Lac La Biche	07CA004
Lac La Nonne at Lac La Nonne	07BB007
Lac Ste Anne at Alberta Beach	05EA006
Lake Abraham near Nordegg	05DC009
Lake Athabasca at Bustard Island	07MD002
Lake Athabasca at Fort Chipewyan	07MD001
Lake Claire near Outlet to Prairie River	07KF002
Lake McGregor at South Dam	05AC022
Lake Minnewanka near Banff	05BD003
Lake Sherburne	05AE036
Lesser Slave Lake at Faust	07BJ002
Lesser Slave Lake at Slave Lake	07BJ006

Station Name	Station Number
Little Bow Reservoir near Enchant	05AC922
Lower Kananaskis Lake at Pocaterra Dam	05BF009
Marie Lake near Cold Lake	06AC005
Massy Reservoir near Elkwater	11AB104
Michele Reservoir near Elkwater	11AB091
Milk River Ridge Reservoir	05AF030
Ministik Lake near New Sarepta	05EB013
Miquelon Lake at Provincial Park	05EB014
Mitchell Reservoir near Elkwater	11AB099
Moore Lake near Cold Lake	06AC002
Muriel Lake near Gurneyville	06AC007
Paddle Reservoir near Rochfort Bridge	07BB914
Peerless Lake near Peerless Lake	07JB001
Pigeon Lake at Grandview	05FA013
Reesor Reservoir near Elkwater	11AB090
South Heart Reservoir near McLennan	07BF008
South Wabasca Lake near Desmarais	07JA002
Spray Reservoir at Three Sisters Dam	05BC006
St. Mary Reservoir near Spring Coulee	05AE025
Steele Lake near Jarvie	07BC005
Sturgeon Lake at Williamson Park	07GH003
Sylvan Lake at Sylvan Lake	05CC003
Travers Reservoir near Enchant	05AC921
Upper Kananaskis Lake at Main Dam	05BF005
Utikuma Lake near Nipisi	07JA001
Vermilion Park Lake near Vermilion	05EE008
Wabamun Lake at Wabamun	05DE002
Waterton Lake at Waterton Park	05AD025
Waterton Reservoir	05AD026
Winagami Lake at Spillway Gates	07BF006

LAKE - STATION DESCRIPTION

STATION NAME:	ALBRIGHT LAKE NEAR DEMMITT
STATION NUMBER:	07FD903
LOCATION:	75-12-W6 - From Demmitt, 0.4 km North, 5.6 km East, 1.4 km North and 1.5 km Northeast.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1976 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:	There is a Ducks Unlimited control structure (Albright Project) on this lake. A rock filled timber dam was constructed in 1949. Structure was rebuilt in 1986.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Albright Lake near Demmitt

Station No. 07FD903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15										792.501*			15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23	792.609*												23
24					792.680*								24
25													25
26													26
27													27
28													28
29													29
30							792.594*						30
31													31
TOT	792.609				792.680		792.594			792.501			TOT
MEAN	792.609x				792.680x		792.594x			792.501x			MEAN
MAX	792.609				792.680		792.594			792.501			MAX
MIN	792.609				792.680		792.594			792.501			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 792.680 Metres on MAY 24
Minimum Observed Daily Water Level: 792.501 Metres on OCT 15

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 792.800 Metres on 1976.09.27
Minimum Observed Daily Water Level: 792.221 Metres on 1979.12.06

Location: LSD NW Sec. 09 Tp. 75 Rge. 12 W6
Latitude: 55 29' Longitude: 119 50'

From Demmitt, 0.4 km N, 5.6 km E, 1.4 km N on trail, 1.5 km NE of trail intersection to clearing at lake shore.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1976-1990
Hydrographic Survey Map Available? NO
There is a Ducks Unlimited control structure (Albright Project) on this lake constructed in 1949. A rock filled timber dam was replaced with a new structure in 1986.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	AMISK LAKE NEAR BOYLE
STATION NUMBER:	06AA902
LOCATION:	65-18-W4 - Northwest end of Amisk Lake, North of Boyle.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake (at present structure is inoperable). A rock filled timber dam was constructed in 1949.

STATION NO. 06AA902

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

AMISK LAKE NEAR BOYLE

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1							611.628		611.698	611.848			1
2						611.627	611.628		611.699				2
3								611.706	611.698				3
4								611.700					4
5								611.693					5
6								611.688					6
7							611.756						7
8							611.756		611.701				8
9						611.627			611.700				9
10						611.627							10
11								611.690					11
12								611.693					12
13							611.753						13
14					611.627								14
15							611.753		611.793				15
16						611.627		611.700					16
17						611.627							17
18								611.698					18
19								611.699					19
20					611.627			611.700					20
21							611.733						21
22							611.731						22
23						611.628							23
24						611.626							24
25								611.698					25
26								611.698					26
27					611.637								27
28							611.718						28
29	611.572					611.628	611.715						29
30						611.628	611.707						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 611.848 METRES ON OCT 1

MINIMUM OBSERVED DAILY WATER LEVEL, 611.572 METRES ON JAN 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 612.024 METRES ON JUL 20/86
MIN. OBSERVED WATER LEVEL, 611.399 METRES ON OCT 11/88

LAKE - STATION DESCRIPTION

STATION NAME: ANGLING LAKE NEAR GRANDE CENTRE

STATION NUMBER: 06AD901

LOCATION: 60-03-W4 - East end of Angling Lake, Southwest of Grande Centre.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation verified April 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

ANGLING LAKE NEAR GRAND CENTRE

STATION NO. 06AD901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								556.844					1
2													2
3										556.736			3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					556.948								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31	556.824												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 556.948 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 556.736 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 557.445 METRES ON JUN 04/86
MIN. OBSERVED WATER LEVEL, 556.672 METRES ON OCT 19/89

LAKE - STATION DESCRIPTION

STATION NAME: ANITA LAKE AT INNISFREE

STATION NUMBER: 05EE925

LOCATION: 51-11-W4 - North side of Innisfree

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1983 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: For published data prior to 1987 add 571.737 m for conversion to Geodetic Elevation.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

ANITA LAKE AT INNISFREE

STATION NO. 05EE925

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					671.159								10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19							671.122						19
20													20
21													21
22													22
23													23
24										670.977			24
25													25
26	670.934 B												26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL. 671.159 METRES ON MAY 10

MINIMUM OBSERVED DAILY WATER LEVEL. 670.934 METRES ON JAN 26
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 671.600 METRES ON MAY 16/86
MIN. OBSERVED WATER LEVEL, 670.880 METRES ON OCT 24/89

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	ANTLER LAKE NEAR TOFIELD
STATION NUMBER:	05EB904
LOCATION:	52-21-W4 - Northeast end of Antler Lake.
GAUGE TYPE:	Staff Gauge
PERIOD OF RECORD:	1973 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Previous Record 1959 - 1960 1962 - 1963 1966 - 1972 Geodetic elevation verified in 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

ANTLER LAKE NEAR TOFIELD

STATION NO. 05EB904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2							738.543						2
3						738.624		738.650					3
4							738.660						4
5													5
6								738.648	738.612				6
7							738.730						7
8													8
9					738.680	738.627			738.612				9
10								738.641					10
11													11
12							738.734						12
13									738.608				13
14						738.632							14
15													15
16					738.632		738.736		738.605				16
17						738.625							17
18													18
19													19
20							738.729	738.637					20
21					738.634								21
22						738.617			738.593				22
23	738.562												23
24							738.723	738.621					24
25					738.634					738.548			25
26													26
27													27
28						738.572		738.617	738.553				28
29					738.632								29
30													30
31							738.680	738.632					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 738.736 METRES ON JUL 16

MINIMUM OBSERVED DAILY WATER LEVEL, 738.543 METRES ON JUL 2
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 739.058 METRES ON JUL 17/87
MIN. OBSERVED WATER LEVEL, 737.970 METRES ON SEP 10/68

LAKE - STATION DESCRIPTION

STATION NAME:	ASTOTIN LAKE NEAR FORT SASKATCHEWAN
STATION NUMBER:	05EB905
LOCATION:	54-20-W4 - Northwest end of Astotin Lake.
GAUGE TYPE:	Staff Gauge
PERIOD OF RECORD:	1967 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation verified in 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

ASTOTIN LAKE NEAR FORT SASKATCHEWAN

STATION NO. 05EB905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						711.819	711.790	711.880	711.776	711.642			1
2						711.819	711.789	711.877	711.781	711.635			2
3						711.820	711.851	711.875	711.777	711.635			3
4							711.893	711.871	711.775	711.633			4
5							711.906	711.863	711.772	711.631			5
6						711.811	711.960	711.852		711.628			6
7						711.821	711.974	711.846		711.626			7
8						711.821	711.985	711.840		711.626			8
9						711.820	711.991	711.835		711.624			9
10					711.902	711.820	712.002	711.829	711.751	711.621			10
11						711.823	712.002	711.825	711.749	711.621			11
12						711.823	711.995	711.821	711.739	711.621			12
13					711.882	711.827	711.995	711.817	711.728	711.620			13
14					711.876	711.824	711.990	711.808	711.722	711.620			14
15					711.870	711.824	711.976	711.804	711.716	711.620			15
16						711.817	711.970	711.802	711.712				16
17						711.820	711.972	711.801	711.707				17
18					711.848	711.809	711.961	711.807	711.701				18
19					711.839	711.810	711.953	711.805	711.699				19
20					711.824	711.804	711.947	711.803					20
21					711.824	711.802	711.939	711.804					21
22					711.827	711.801	711.932	711.804					22
23					711.830	711.795	711.926	711.800		711.613			23
24	711.834				711.838	711.792	711.924	711.794	711.673				24
25					711.834	711.786	711.920	711.787	711.673				25
26					711.834	711.786	711.913	711.785	711.669				26
27					711.833	711.789	711.907	711.783	711.665				27
28					711.830	711.789	711.901	711.779	711.658				28
29					711.827	711.790	711.896	711.772	711.652				29
30					711.824	711.790	711.892	711.762	711.646				30
31					711.818		711.886	711.752					31
TOTAL							22069.938	22066.283					TOTAL
MEAN							711.933	711.816					MEAN
MAX							712.002	711.880					MAX
MIN							711.789	711.752					MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 712.002 METRES ON JUL 10

MINIMUM OBSERVED DAILY WATER LEVEL, 711.613 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 712.002 METRES ON JUL 10/90
MIN. OBSERVED WATER LEVEL, 711.260 METRES ON OCT 26/67

LAKE - STATION DESCRIPTION

STATION NAME: BATTLE LAKE NEAR HOADLEY

STATION NUMBER: 05FA903

LOCATION: 46-01-W5 - Southeast end of Battle Lake, 11.3 km North and 14.5 km West of Hoadley.

GAUGE TYPE: None prior to 1990, level established by surveying. Staff Gauge installed in 1990.

PERIOD OF RECORD: 1961 - 1962; 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1987. Add 0.150 m to published data prior to 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BATTLE LAKE NEAR HOADLEY

STATION NO. 05FA903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1									836.427				1
2								836.675		836.334			2
3													3
4								836.622	836.410				4
5													5
6							837.996						6
7		836.260			836.545			836.593					7
8								836.575					8
9													9
10													10
11								836.529	836.389	836.423			11
12								836.502					12
13													13
14								836.481					14
15										836.420			15
16													16
17									836.355				17
18								836.484	836.348	836.402			18
19													19
20								836.434					20
21									836.348				21
22													22
23									836.348				23
24													24
25													25
26									836.342				26
27							836.791	836.428					27
28										836.436			28
29							836.753			836.435			29
30							836.724						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 837.996 METRES ON JUL 6

MINIMUM OBSERVED DAILY WATER LEVEL, 836.260 METRES ON FEB 7
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL. 837.996 METRES ON JUL 06/90
MIN. OBSERVED WATER LEVEL, 836.244 METRES ON FEB 19/81

LAKE - STATION DESCRIPTION

STATION NAME: BEAR LAKE NEAR BELLIS

STATION NUMBER: 05ED901

LOCATION: 60-15-W4 - Southeast side of Bear Lake, 9.7 km North and 1.6 km East of Bellis.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BEAR LAKE NEAR BELLIS

STATION NO. 05ED901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		685.915											1
2								685.878					2
3													3
4										685.797			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18					686.009								18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 686.009 METRES ON MAY 18

MINIMUM OBSERVED DAILY WATER LEVEL, 685.797 METRES ON OCT 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 686.565 METRES ON SEP 25/80
MIN. OBSERVED WATER LEVEL, 685.797 METRES ON OCT 04/90

LAKE - STATION DESCRIPTION

STATION NAME:	BEAR LAKE NEAR CLAIRMONT	
STATION NUMBER:	07GE004	
LOCATION:	NE 12-72-07-W6 -	From Clairmont, 8.0 km West, 3.2 km South, 0.5 km west to lake.
GAUGE TYPE:	Staff Gauge	
PERIOD OF RECORD:	1966 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Initially operated as 'Bear Lake near Grande Prairie' (L-72-7-W6-1) by ADOE from 1966 - 1972. Operated by Water Survey Canada 1969 to 1986. Data published by Water Survey Canada. There is a Ducks Unlimited control structure on this lake constructed in 1946. It's presently licenced by the County of Grande Prairie and is inactive with all stop- logs removed. Geodetic elevation established in 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Bear Lake near Clairmont

Station No. 07GE004

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						663.894	664.431						1
2						663.886	664.439						2
3						663.898	664.427E						3
4						663.896	664.386						4
5						663.881*	664.378						5
6						663.866	664.388						6
7						663.880	664.380						7
8						663.868	664.366						8
9						663.856	664.364						9
10						663.848	664.360						10
11						663.892	664.362						11
12						663.978	664.329*						12
13						664.026							13
14						664.226							14
15						664.382*							15
16						664.465							16
17						664.438							17
18						664.466							18
19						664.485				663.475*			19
20						664.494							20
21						664.484							21
22	663.193*					664.475							22
23					663.870*	664.451							23
24					663.880	664.454							24
25					663.904	664.458							25
26					663.890	664.473							26
27					663.884	664.451							27
28					663.888	664.444							28
29					663.892	664.436							29
30					663.897	664.427							30
31					663.890								31
TOT	663.193				5974.995	19926.178	7972.610			663.475			TOT
MEAN	663.193x				663.888x	664.206	664.384x			663.475x			MEAN
MAX	663.193				663.904	664.494	664.439			663.475			MAX
MIN	663.193				663.870	663.848	664.329			663.475			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 664.494 Metres on JUN 20
Minimum Observed Daily Water Level: 663.193 Metres on JAN 22

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 665.798 Metres on 1974.05.08
Minimum Observed Daily Water Level: 662.873 Metres on 1988.10.02

Location: LSD NE Sec. 12 Tp. 72 Rge. 7 W6
Latitude: 55 14' Longitude: 118 57'

From Clairmont, 8.0 km West on Hwy #673, 3.2 km South, and 0.5 km West to station site.

Gauge Type: Outside Staff Gauge.
Period of Record: 1969-1990
Hydrographic Survey Map Available? YES
Operated by WSC, 1969-1986. Hydrographic Survey, 1962.
Ducks Unlimited control structure constructed 1946; inactive. Geodetic Elevation established, 1988. Winter

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: BEAR LAKE NEAR EDSON

STATION NUMBER: 07AG901

LOCATION: 55-15-W5 - From Highway #16, 18 km North, 1.6 km East, 4.8 km North, and 1.8 km West.

GAUGE TYPE: Staff Gauge

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is no Ducks Unlimited control structure on this lake as indicated in 1988.
Hydrographic Survey 1971.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Bear Lake near Edson

Station No. 07AG901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						870.754	870.745		870.619				1
2						870.759	870.746		870.619				2
3					870.746*	870.754	870.786			870.591*			3
4						870.759							4
5	870.743*					870.759	870.796						5
6													6
7						870.764	870.786						7
8						870.764	870.786						8
9							870.786	870.655					9
10					870.726*			870.655					10
11						870.765	870.762*	870.655					11
12							870.776	870.645					12
13							870.766	870.645					13
14						870.775	870.766						14
15						870.775	870.766						15
16						870.765	870.756	870.645					16
17						870.765		870.645					17
18						870.765		870.645					18
19							870.736	870.645					19
20							870.736	870.645					20
21						870.750	870.736	870.645					21
22						870.745	870.736	870.649					22
23						870.745	870.726	870.649					23
24					870.729	870.745		870.644					24
25					870.744			870.634					25
26					870.749	870.745	870.715	870.639					26
27					870.744		870.705	870.634					27
28					870.744	870.745	870.695	870.634					28
29						870.745	870.685	870.629					29
30						870.745	870.685	870.624					30
31								870.624					31
TOT	870.743				6095.182	18285.888	20027.178	18283.485	1741.238	870.591			TOT
MEAN	870.743x				870.740x	870.757x	870.747x	870.642x	870.619x	870.591x			MEAN
MAX	870.743				870.749	870.775	870.796	870.655	870.619	870.591			MAX
MIN	870.743				870.726	870.745	870.685	870.624	870.619	870.591			MIN

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 870.796 Metres on JUL 5
Minimum Observed Daily Water Level: 870.591 Metres on OCT 3

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 870.900 Metres on 1982.07.05
Minimum Observed Daily Water Level: 870.469 Metres on 1970.10.06

Location: LSD NE Sec. 09 Tp. 55 Rge. 15 W5
Latitude: 53 44' Longitude: 116 09'

From Hwy # 16, 18 km N on Rosevear road, across McLeod River Ferry, 1.6 km E & 4.8 km N on Sec #748 till Bear Lake sign, then 1.8 km W to campground.

Gauge Type: Outside Staff Gauge.
Period of Record: 1969-1990
Hydrographic Survey Map Available? YES
There is no Ducks Unlimited control structure on this lake as indicated in 1988. Hydrographic Survey, 1971.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: BEARHILLS LAKE NEAR WETASKIWIN

STATION NUMBER: 05FA904

LOCATION: 46-25-W4 - Northeast tip of lake at North outflow, 15.1 km West of Wetaskiwin on Highway #13.

GAUGE TYPE: Staff gauge.

PERIOD OF RECORD: 1957-1962; 1966 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: A sheet pile weir with stop logs was constructed in 1974. Structure is operated by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BEARHILLS LAKE NEAR WETASKIWIN

STATION NO. 05FA904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2								787.102					2
3													3
4													4
5							787.008						5
6							787.194						6
7													7
8													8
9										786.772			9
10								787.004					10
11					786.953								11
12													12
13													13
14									786.809				14
15													15
16													16
17								786.942					17
18						786.876							18
19													19
20													20
21													21
22													22
23										786.758			23
24													24
25													25
26													26
27							787.199						27
28													28
29													29
30	786.674 B												30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 787.199 METRES ON JUL 27

MINIMUM OBSERVED DAILY WATER LEVEL, 786.674 METRES ON JAN 30
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 788.719 METRES ON APR 25/74
MIN. OBSERVED WATER LEVEL, 786.174 METRES ON AUG 15/68

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	BEARTRAP LAKE NEAR GRAND CENTRE	
STATION NUMBER:	06AC914	
LOCATION:	60-04-W4 -	Northwest end of lake, 14.5 km East and 6.4 km South of Bonnyville.
GAUGE TYPE:	None. Level established by surveying.	
PERIOD OF RECORD:	1973 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic Elevation verified November 1980.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BEARTRAP LAKE NEAR GRAND CENTRE

STATION NO. 06AC914

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								573.742					1
2													2
3										573.632			3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					573.847								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31	573.709												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 573.847 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 573.632 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 573.871 METRES ON MAY 12/87
MIN. OBSERVED WATER LEVEL, 573.152 METRES ON JUL 30/74

LAKE - STATION DESCRIPTION

STATION NAME: BEAUVAIS LAKE NEAR PINCHER CREEK

STATION NUMBER: 05AA901

LOCATION: 05-01-W5 - 11.3 km West of Pincher Creek on Beaver Mines Road and 6.4 km South to Provincial Park.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified in 1980.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BEAUVAIS LAKE NEAR PINCHER CREEK

STATION NO. 05AA901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7						1367.850							7
8													8
9													9
10													10
11													11
12													12
13													13
14								1367.670					14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29			1367.285							1367.470			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1367.850 METRES ON JUN 7

MINIMUM OBSERVED DAILY WATER LEVEL, 1367.285 METRES ON MAR 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1367.940 METRES ON JUN 23/75
MIN. OBSERVED WATER LEVEL, 1366.137 METRES ON DEC 16/85

LAKE - STATION DESCRIPTION

STATION NAME:	BEAUVALLON LAKE NEAR TWO HILLS
STATION NUMBER:	05EE902
LOCATION:	54-10-W4 - Northwest end of lake, 25.7 km East and 6.4 km South of Two Hills.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	There is a Ducks Unlimited Control Structure on this lake constructed in 1984. Geodetic Elevation verified in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BEAUVALLON LAKE NEAR TWO HILLS

STATION NO. 05EE902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					603.363								10
11													11
12													12
13													13
14													14
15													15
16													16
17							603.254						17
18													18
19													19
20													20
21													21
22													22
23													23
24	603.023 B									603.090			24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 603.363 METRES ON MAY 10

MINIMUM OBSERVED DAILY WATER LEVEL, 603.023 METRES ON JAN 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 604.212 METRES ON MAY 15/79
MIN. OBSERVED WATER LEVEL, 602.904 METRES ON OCT 24/89

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: BEAVERDAM LAKE NEAR CARDSTON

STATION NUMBER: 05AE905

LOCATION: 02-27-W4 - 5.8 km South of Mountain View.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1979 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is an outlet control structure on this lake (F.S.L. = 1400.56 m)

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BEAVERDAM LAKE NEAR CARDSTON

STATION NO. 05AE905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4				1400.500									4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21								1400.686					21
22													22
23													23
24													24
25						1400.626							25
26													26
27													27
28													28
29										1400.396			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1400.686 METRES ON AUG 21

MINIMUM OBSERVED DAILY WATER LEVEL, 1400.396 METRES ON OCT 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1400.824 METRES ON APR 02/86
MIN. OBSERVED WATER LEVEL, 1399.811 METRES ON NOV 16/88

LAKE - STATION DESCRIPTION

STATION NAME: BEAVERHILL LAKE NEAR TOFIELD

STATION NUMBER: 05EB906

LOCATION: 51-17-W4 - 18.9 km North and 1.6 km West of Ryley.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Water Survey of Canada operated stations 05EB003 and 05EB008 in 1918 - 1920; 1925.
Ducks Unlimited has two Control Structures in and around the lake but do not control the outlet.
Geodetic elevations revised in 1987. Add 0.361 metres to published data prior to 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BEAVERHILL LAKE NEAR TOFIELD

STATION NO. 05EB906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					668.825			668.816					9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25										668.764			25
26	668.682 B												26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 668.825 METRES ON MAY 9

MINIMUM OBSERVED DAILY WATER LEVEL, 668.682 METRES ON JAN 26
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 669.604 METRES ON JUN 13/74
MIN. OBSERVED WATER LEVEL, 668.223 METRES ON AUG 22/68

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: BEAVER MINES LAKE NEAR BELLEVUE

STATION NUMBER: 05AA902

LOCATION: 05-03-W5 - 29.8 km West, Southwest of Pincher Creek.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1977 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BEAVER MINES LAKE NEAR BELLEVUE

STATION NO. 05AA902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7						30.303							7
8													8
9													9
10													10
11													11
12													12
13													13
14								30.193					14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29			30.153							30.008			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 30.303METRES ON .JUN 7

MINIMUM OBSERVED DAILY WATER LEVEL, 30.008METRES ON .OCT 29
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 30.434 METRES ON MAY 23/79
MIN. OBSERVED WATER LEVEL, 29.401 METRES ON OCT 24/77

LAKE - STATION DESCRIPTION

STATION NAME: BEN'S LAKE NEAR TWO HILLS

STATION NUMBER: 05EE903

LOCATION: 54-13-W4 - 5.6 km South and 8 km West of Two Hills.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1972 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic Elevation verified in 1983. There is a Control Structure on this lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BENS LAKE NEAR TWO HILLS

STATION NO. 05EE903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					599.807								10
11													11
12													12
13													13
14													14
15													15
16							599.676						16
17													17
18													18
19													19
20				599.897									20
21													21
22													22
23										599.544			23
24	599.700			599.857									24
25													25
26													26
27				599.837									27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 599.897 METRES ON APR 20

MINIMUM OBSERVED DAILY WATER LEVEL, 599.544 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 601.392 METRES ON MAY 10/74
MIN. OBSERVED WATER LEVEL, 599.235 METRES ON JUL 07/89

LAKE - STATION DESCRIPTION

STATION NAME: BIG HAY LAKE NEAR HAY LAKES

STATION NUMBER: 05FA905

LOCATION: 48-22-W4 - 7.2 km West and 2 km South of the town of Hay Lakes.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1979 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:
There is a Ducks Unlimited Control Structure on this lake.
This structure is controlled by the local drainage district.
Geodetic Elevation verified 1982.
Geodetic Elevation revised in 1987.
Add +0.067 m to published data prior to 1984.
Add +0.092 m to published data 1984-1986.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BIG HAY LAKE NEAR HAY LAKES

STATION NO. 05FA905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7					753.213								7
8													8
9								753.184					9
10													10
11													11
12										753.093			12
13													13
14													14
15													15
16													16
17													17
18							753.261						18
19													19
20													20
21													21
22													22
23	752.452												23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 753.261 METRES ON JUL 18

MINIMUM OBSERVED DAILY WATER LEVEL, 752.452 METRES ON JAN 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 753.499 METRES ON AUG 03/83
MIN. OBSERVED WATER LEVEL, DRY ON NUMEROUS OCCASIONS

LAKE - STATION DESCRIPTION

STATION NAME: BIG ISLAND LAKE NEAR SHERWOOD PARK

STATION NUMBER: 05EB917

LOCATION: SW 9-52-22-W4 - Approximatley 5 km East and 3 km East of Sherwood Park.

GAUGE TYPE: Staff Gauge

PERIOD OF RECORD: 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BIG ISLAND LAKE NEAR SHERWOOD PARK

STATION NO. 05EB917

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										725.839			1
2													2
3										725.839			3
4										725.839			4
5										725.839			5
6									725.940				6
7										725.840			7
8													8
9									725.924				9
10									725.924				10
11									725.918				11
12									725.914	725.830			12
13									725.906				13
14									725.902				14
15									725.896				15
16									725.891	725.826			16
17													17
18									725.887				18
19													19
20									725.879	725.826			20
21													21
22									725.867				22
23										725.820			23
24									725.866	725.812			24
25									725.866	725.818			25
26													26
27									725.850				27
28									725.838				28
29													29
30									725.839				30
31										725.802			31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 725.940 METRES ON SEP 6

MINIMUM OBSERVED DAILY WATER LEVEL, 725.802 METRES ON OCT 31
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 725.940 METRES ON SEP 06/90
MIN. OBSERVED WATER LEVEL, 725.802 METRES ON OCT 31/90

LAKE - STATION DESCRIPTION

STATION NAME: BIG LAKE NEAR ST. ALBERT

STATION NUMBER: 05EA902

LOCATION: 53-25-W4 - 1.6 km West and 0.8 km South of St. Albert.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1958 - 1961; 1963; 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Water Survey of Canada operated station 05EA007 "Near St. Albert" in 1940.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BIG LAKE NEAR ST. ALBERT

STATION NO. 05EA902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					650.723								10
11							651.370						11
12										650.938			12
13													13
14													14
15													15
16	650.621												16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26							651.510						26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 651.510 METRES ON JUL 26

MINIMUM OBSERVED DAILY WATER LEVEL, 650.621 METRES ON JAN 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 652.665 METRES ON JUL 19/74
MIN. OBSERVED WATER LEVEL, 649.599 METRES ON NOV 24/58

LAKE - STATION DESCRIPTION

STATION NAME: BIRCH LAKE NEAR GLENEVIS

STATION NUMBER: 05EA903

LOCATION: 55-04-W5 - 0.8 km East and 5.6 km South of Glenevis.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1985.
Add 46.960 m to published data prior to 1985.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BIRCH LAKE NEAR GLENEVIS

STATION NO. 05EA903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					729.365								10
11							729.399						11
12										729.163			12
13													13
14													14
15													15
16													16
17													17
18													18
19	729.313												19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 729.399 METRES ON JUL 11

MINIMUM OBSERVED DAILY WATER LEVEL, 729.163 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 729.782 METRES ON JUN 10/77
MIN. OBSERVED WATER LEVEL, 728.964 METRES ON OCT 18/88

LAKE - STATION DESCRIPTION

STATION NAME:	BIRCH LAKE NEAR INNISFREE
STATION NUMBER:	05EE904
LOCATION:	50-11-W4 - North end of Birch Lake, 1.6 km South of Innisfree.
GAUGE TYPE:	None prior to 1990, level established by surveying. Staff Gauge installed in 1990.
PERIOD OF RECORD:	1969 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic elevation verified in 1983. Add 0.193 m to published data prior to 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BIRCH LAKE NEAR INNISFREE

STATION NO. 05EE904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						639.973		639.929					1
2								639.919	639.870				2
3								639.950	639.880				3
4						639.943		639.900					4
5								639.878					5
6						639.955		639.880					6
7						639.974	639.958	639.884					7
8							639.969	639.873					8
9							639.958	639.870					9
10					640.004		639.968	639.870	639.891				10
11					640.025			639.870					11
12						639.924	639.967	639.867					12
13						639.918							13
14					640.013	639.918							14
15					640.015								15
16					640.029								16
17					640.024		639.938						17
18					640.022		639.910						18
19													19
20						639.927							20
21						639.927	639.929	639.880					21
22						639.927	639.949	639.880					22
23						639.887	639.930						23
24										639.778			24
25													25
26	639.813					639.877	639.949	639.870					26
27						639.886							27
28					639.992								28
29						639.877	639.918						29
30													30
31					639.987		639.919						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 640.029 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 639.778 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 641.056 METRES ON MAY 29/74
MIN. OBSERVED WATER LEVEL, 638.868 METRES ON OCT 02/70

LAKE - STATION DESCRIPTION

STATION NAME:	BITTERN LAKE NEAR BITTERN LAKE
STATION NUMBER:	05FA906
LOCATION:	46-22-W4 - 0.8 km West of the town of Bittern Lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1948; 1955 - 1960; 1979 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:	Water Survey of Canada operated station 05FA003 "At Bittern Lake" 1918 - 1922. Geodetic elevation verified in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BITTERN LAKE NEAR BITTERN LAKE

STATION NO. 05FA906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7					737.054								7
8													8
9													9
10													10
11													11
12										736.828			12
13													13
14													14
15													15
16													16
17							737.042						17
18													18
19													19
20													20
21													21
22													22
23	736.956 B												23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 737.054 METRES ON MAY 7

MINIMUM OBSERVED DAILY WATER LEVEL, 736.828 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 737.833 METRES ON JUL 27/83
MIN. OBSERVED WATER LEVEL, 736.828 METRES ON OCT 12/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	BLACK DUCK LAKE NEAR HINES CREEK
STATION NUMBER:	07FD915
LOCATION:	83-03-W6 - From Hines Creek, 11 km Southeast, 0.5 km North, 1.6 km East, 0.5 km North and 1 km East.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1980 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	There is a Ducks Unlimited control structure on this lake constructed in 1982.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Black Duck Lake near Hines Creek

Station No. 07FD915

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	662.517*												8
9													9
10													10
11													11
12													12
13													13
14					662.695*								14
15													15
16							662.564*						16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24									662.352*				24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	662.517				662.695		662.564		662.352				TOT
MEAN	662.517x				662.695x		662.564x		662.352x				MEAN
MAX	662.517				662.695		662.564		662.352				MAX
MIN	662.517				662.695		662.564		662.352				MIN

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 662.695 Metres on MAY 14
Minimum Observed Daily Water Level: 662.352 Metres on SEP 24

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 662.695 Metres on 1990.05.14
Minimum Observed Daily Water Level: 662.151 Metres on 1986.02.04

Location: LSD SE Sec. 07 Tp. 083 Rge. 03 W6
Latitude: 56 11'   Longitude: 118 28'

From Hines Creek, 11 km SE on Hwy #64, 0.5 km N, 1.6 km E, 0.5 km N to Rainbow Ranch, 1 km E to lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1980-1990
Hydrographic Survey Map Available? NO
Water level controlled by Ducks Unlimited structure: 1982.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: BLACKMUD LAKE AT MARLBORO

STATION NUMBER: 07AF901

LOCATION: 53-19-W5 - From Highway #16, approximately 1.5 km North to Marlboro, then West to lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Hydrographic Survey 1968.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Blackmud Lake at Marlboro

Station No. 07AF901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						963.310	963.119	963.117	963.117	963.091			1
2						963.310	963.131	963.115	963.115	963.081*			2
3						963.290	963.201	963.111	963.119				3
4	963.002*					963.280	963.229	963.107	963.117				4
5						963.280	963.239	963.105	963.109				5
6						963.260	963.247	963.101	963.107				6
7						963.250	963.243	963.099	963.101				7
8						963.228	963.235	963.095	963.095				8
9					963.081*	963.218	963.219	963.091	963.095				9
10					963.080	963.203	963.196*	963.089	963.093				10
11					963.081	963.223	963.179	963.085	963.089				11
12					963.083	963.251	963.177	963.080	963.099				12
13					963.083	963.281	963.159	963.079	963.097				13
14					963.084	963.287	963.141	963.079	963.097				14
15					963.085	963.283	963.131	963.077	963.095				15
16					963.140	963.251	963.131	963.083	963.099				16
17					963.140	963.231	963.129	963.087	963.095				17
18					963.160	963.209	963.125	963.091	963.095				18
19					963.160	963.179	963.125	963.089	963.101				19
20					963.164	963.159	963.127	963.089	963.105				20
21					963.190	963.131	963.119	963.081	963.109				21
22					963.192	963.091	963.117	963.085	963.109				22
23					963.202	963.085	963.116	963.083	963.107				23
24					963.222	963.111	963.115	963.081	963.107				24
25					963.228	963.109	963.119	963.079	963.101				25
26					963.230	963.109	963.119	963.095	963.099				26
27					963.230	963.111	963.119	963.101	963.099				27
28					963.228	963.121	963.117	963.101	963.095				28
29					963.220	963.119	963.117	963.097	963.095				29
30					963.250	963.119	963.117	963.113	963.093				30
31					963.290		963.117	963.115					31
TOT	963.002				22152.823	28896.089	29857.775	29855.900	28893.054	1926.172			TOT
MEAN	963.002x				963.166x	963.203	963.154	963.094	963.102	963.086x			MEAN
MAX	963.002				963.290	963.310	963.247	963.117	963.119	963.091			MAX
MIN	963.002				963.080	963.085	963.115	963.077	963.089	963.081			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 963.310 Metres on JUN 1
Minimum Observed Daily Water Level: 963.002 Metres on JAN 4

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 963.349 Metres on 1989.07.10
Minimum Observed Daily Water Level: 962.263 Metres on 1975.09.23

Location: LSD SW Sec. 07 Tp. 53 Rge. 19 W5
Latitude: 53 34' Longitude: 116 48'

From Hwy #16, N ~ 1 km to Marlboro, W at Youth Centre, go past school and take first trail into lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1968-1990
Hydrographic Survey Map Available? NO
Hydrographic Survey 1968.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: BONNIE LAKE NEAR VILNA

STATION NUMBER: 05ED902

LOCATION: 59-13-W4 - Southwest end of Bonnie Lake, 3.2 km North and 3.2 km East of Vilna.

GAUGE TYPE: Staff gauge.

PERIOD OF RECORD: 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BONNIE LAKE NEAR VILNA

STATION NO. 05ED902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		638.423						638.476	638.325				1
2							638.396	638.369					2
3						638.462		638.363					3
4						638.457	638.461	638.358		638.267			4
5						638.452	638.456	638.363					5
6						638.452	638.451	638.353	638.320				6
7						638.452	638.456	638.333	638.313				7
8							638.451	638.336	638.317				8
9						638.447	638.456	638.329					9
10						638.447	638.451	638.334	638.310				10
11						638.452	638.446	638.329					11
12								638.324					12
13						638.452		638.324					13
14						638.447		638.314					14
15						638.442		638.319	638.310				15
16						638.446	638.416	638.332	638.308				16
17						638.442	638.431	638.332					17
18					638.518	638.442	638.406	638.334					18
19						638.437	638.411	638.339	638.300				19
20						638.438	638.406	638.329	638.300				20
21					638.507	638.424	638.411	638.329					21
22					638.502	638.424	638.404		638.292				22
23					638.502	638.427	638.404	638.328					23
24					638.502	638.417	638.406	638.324					24
25					638.491	638.416	638.401	638.319					25
26					638.492	638.406	638.399	638.325					26
27					638.486	638.401	638.399	638.317					27
28					638.491	638.399	638.401	638.315					28
29					638.477		638.386	638.310	638.277				29
30					638.479		638.386	638.310	638.267				30
31					638.472		638.396						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 638.518 METRES ON MAY 18

MINIMUM OBSERVED DAILY WATER LEVEL, 638.267 METRES ON SEP 30
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 639.757 METRES ON AUG 16/67
MIN. OBSERVED WATER LEVEL, 638.267 METRES ON SEP 30/90

LAKE - STATION DESCRIPTION

STATION NAME: BORDEN LAKE NEAR ELK POINT

STATION NUMBER: 05ED915

LOCATION: NE 19-56-04-W4 - 6 km northeast and 0.5 km east of Whitney Lakes Provincial Park Administration.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1988 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Assumed datum.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BORDEN LAKE NEAR ELK POINT

STATION NO. 05ED915

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						30.194		30.082	30.010	29.931			1
2						30.184	30.092	30.080	30.009				2
3						30.184	30.131	30.070	30.004				3
4						30.182	30.162	30.070	30.004				4
5						30.174	30.122	30.068	29.999				5
6						30.174	30.122	30.067	29.999				6
7						30.174		30.053	29.999				7
8						30.172	30.122	30.070	30.009				8
9						30.171	30.121	30.050	29.999				9
10						30.171	30.121	30.060					10
11						30.171	30.121	30.045					11
12						30.162	30.121	30.045					12
13							30.106	30.040	29.989				13
14								30.040	29.989				14
15							30.091	30.045	29.989				15
16						30.143	30.091	30.050					16
17					30.225	30.128	30.090	30.055					17
18					30.235	30.123	30.081	30.050					18
19					30.243	30.123	30.071	30.050					19
20						30.123	30.081	30.050					20
21					30.243		30.086	30.050					21
22					30.233	30.113	30.091	30.050					22
23						30.103	30.091	30.050					23
24						30.102	30.090	30.035					24
25					30.214	30.101	30.090	30.035					25
26						30.101	30.090	30.040					26
27					30.209	30.092	30.090	30.040					27
28					30.209	30.092	30.088	30.015					28
29					30.203		30.090	30.015					29
30						30.092	30.085	30.010					30
31	29.890						30.080	30.020					31
TOTAL								931.500					TOTAL
MEAN								30.048					MEAN
MAX								30.082					MAX
MIN								30.010					MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 30.243METRES ON ,MAY 19

MINIMUM OBSERVED DAILY WATER LEVEL, 29.890METRES ON ,JAN 31
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 30.243 METRES ON MAY 19/90
MIN. OBSERVED WATER LEVEL, 29.691 METRES ON FEB 09/89

LAKE - STATION DESCRIPTION

STATION NAME:	BOUCHARD LAKE NEAR CLYDE	
STATION NUMBER:	05EC915	
LOCATION:	60-24-W4 -	Approximately 14 km East of Clyde on Highway #18 and 4 km North of junction of Athabasca Trail and Highway #18.
GAUGE TYPE:	Staff Gauge.	
PERIOD OF RECORD:	1985 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BOUCHARD LAKE NEAR CLYDE

STATION NO. 05EC915

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1				638.105	638.125	638.099	638.027	637.998	637.941	637.897	637.868		1
2				638.105	638.123	638.095	638.039	637.996	637.936	637.897	637.866		2
3				638.103	638.121	638.091	638.077	637.994	637.936	637.895	637.866		3
4				638.103	638.121	638.085	638.075	637.988	637.934	637.895	637.866		4
5				638.103	638.121	638.085	638.073	637.980	637.930	637.899	637.866		5
6				638.101	638.117	638.085	638.075	637.972	637.932	637.898			6
7				638.101	638.123	638.081	638.071	637.964	637.936	637.898			7
8				638.101	638.125	638.071	638.067	637.957	637.936	637.898			8
9				638.101	638.125	638.065	638.077	637.951	637.934	637.896			9
10				638.099	638.125	638.065	638.063	637.945	637.931	637.894			10
11				638.099	638.123	638.065	638.061	637.941	637.931	637.892			11
12				638.099	638.119	638.065	638.059	637.937	637.939	637.892			12
13				638.099	638.117	638.059	638.054	637.933	637.937	637.886			13
14				638.099	638.113	638.059	638.054	637.933	637.937	637.884			14
15				638.099	638.109	638.045	638.048	637.935	637.933	637.882			15
16				638.097	638.110	638.046	638.044	637.934	637.935	637.878			16
17	638.115 B			638.095	638.108	638.064	638.044	637.938	637.939	637.876			17
18				638.095	638.112	638.064	638.044	637.938	637.939	637.876			18
19				638.091	638.112	638.064	638.046	637.938	637.938	637.876			19
20				638.083	638.108	638.056	638.048	637.938	637.936	637.874			20
21				638.079	638.108	638.050	638.046	637.934	637.936	637.874			21
22				638.079	638.110	638.046	638.041	637.936	637.936	637.874			22
23				638.119	638.110	638.042	638.035	637.938	637.940	637.874			23
24				638.135	638.114	638.036	638.029	637.936	637.938	637.874			24
25				638.135	638.112	638.036	638.025	637.933	637.936	637.872			25
26				638.133	638.106	638.036	638.023	637.933	637.930	637.872			26
27				638.129	638.104	638.032	638.021	637.933	637.923	637.868			27
28				638.133	638.102	638.026	638.017	637.931	637.919	637.868			28
29				638.129	638.102	638.022	638.013	637.933	637.913	637.868			29
30				638.127	638.098	638.018	638.008	637.941	637.907	637.868			30
31					638.099		638.004	637.941		637.868			31
TOTAL				19143.176	19781.522	19141.753	19779.408	19776.399	19137.988	19774.363			TOTAL
MEAN				638.106	638.114	638.058	638.045	637.948	637.933	637.883			MEAN
MAX				638.135	638.125	638.099	638.077	637.998	637.941	637.899			MAX
MIN				638.079	638.098	638.018	638.004	637.931	637.907	637.868			MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 638.135 METRES ON APR 24

MINIMUM OBSERVED DAILY WATER LEVEL, 637.866 METRES ON NOV 2
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 638.194 METRES ON JUL 22/89
MIN. OBSERVED WATER LEVEL, 637.634 METRES ON JUN 22/88

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	BUCK LAKE NEAR DRAYTON VALLEY
STATION NUMBER:	05DE901
LOCATION:	46-06-W5 - Southwest corner of Buck Lake on bridge crossing near West end of Buck Lake Resort.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1958 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	There is an Alberta Environment Control Structure on this lake. (Concrete fixed crest weir; F.S.L. = 881.64 m) Geodetic elevation revised in 1987. Add 0.197 m to published data prior to 1983. Add 0.230 m to published data 1984 to 1986.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BUCK LAKE NEAR DRAYTON VALLEY

STATION NO. 05DE901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						882.180	882.247	882.134	882.015	881.943			1
2						882.175		882.123	882.011	881.940			2
3						882.168			882.014	881.939			3
4						882.212			882.009	881.939			4
5						882.266	882.743		882.007	881.937			5
6						882.286	882.723		882.004	881.936			6
7		882.008				882.293	882.740		882.002	881.934			7
8						882.286	882.708	882.078	881.998	881.934			8
9						882.278	882.640	882.081	881.994	881.934			9
10						882.266	882.607	882.076	881.992	881.934			10
11					882.119	882.331	882.533	882.070	881.986	881.934			11
12					882.104		882.507	882.062	881.982	881.933			12
13					882.111		882.474	882.054	881.979	881.933			13
14							882.411	882.049	881.979	881.932			14
15					882.111		882.380	882.039	881.978	881.932			15
16					882.099		882.383	882.045	881.978	881.930			16
17					882.098		882.351	882.039	881.974	881.929			17
18					882.100		882.316	882.033	881.973	881.927			18
19					882.100		882.296	882.028	881.970	881.927			19
20					882.099		882.289	882.029	881.965	881.926			20
21					882.111	882.372		882.026	881.960	881.924			21
22					882.126	882.359		882.024	881.957	881.925			22
23					882.136	882.347		882.023	881.956	881.922			23
24					882.141	882.335		882.023	881.953	881.917			24
25					882.156	882.334		882.021	881.953	881.915			25
26					882.165	882.299		882.021	881.951	881.913			26
27					882.173	882.277	882.189	882.018	881.947	881.912			27
28					882.184	882.262	882.179	882.013	881.945	881.909			28
29					882.184	882.269	882.168	882.011	881.945	881.913			29
30					882.188	882.247	882.154	882.008	881.943	881.904			30
31					882.184		882.143	882.007		881.902			31
TOTAL									26459.320	27339.729			TOTAL
MEAN									881.977	881.927			MEAN
MAX									882.015	881.943			MAX
MIN									881.943	881.902			MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 882.743 METRES ON JUL 5

MINIMUM OBSERVED DAILY WATER LEVEL, 881.902 METRES ON OCT 31
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 882.879 METRES ON JUL 20/86
MIN. OBSERVED WATER LEVEL, 881.420 METRES ON NOV 11/66

LAKE - STATION DESCRIPTION

STATION NAME: BUFFALO LAKE NEAR LA GLACE

STATION NUMBER: 07GE901

LOCATION: 74-07-W6 - From Highway #2, 13 km West on Highway #59, 0.2 km North to lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1976 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is no Ducks Unlimited Control Structure as indicated in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Buffalo Lake near La Glace

Station No. 07GE901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12							729.791*						12
13													13
14													14
15													15
16													16
17													17
18													18
19										729.605*			19
20													20
21													21
22	729.566I												22
23					729.786*								23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	729.566				729.786		729.791			729.605			TOT
MEAN	729.566x				729.786x		729.791x			729.605x			MEAN
MAX	729.566				729.786		729.791			729.605			MAX
MIN	729.566				729.786		729.791			729.605			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 729.791 Metres on JUL 12
Minimum Observed Daily Water Level: 729.566 Metres on JAN 22

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 730.795 Metres on 1977.07.02
Minimum Observed Daily Water Level: 729.421 Metres on 1989.07.20

Location: LSD SE Sec. 03 Tp. 074 Rge. 07 W6
Latitude: 55 22'   Longitude: 118 57'

From Hwy. #2, 12.8 km W on Hwy. #59, N to lake. Also, 3.2 km E of Buffalo Lake hamlet.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1976-1990
Hydrographic Survey Map Available? NO
There is no Ducks Unlimited control structure as indicated in 1983.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	BURNSTICK LAKE NEAR SUNDRE
STATION NUMBER:	05CA903
LOCATION:	35-06-W5 - East end of lake by structure, 14.4m West and 22.4 km North of Sundre.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1976 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is an Alberta Environment Control Structure on this lake. (Sheet-piling Weir)
Station moved in 1987, former location on Northwest side of lake.
Geodetic elevation verified in 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

BURNSTICK LAKE NEAR SUNDRE

STATION NO. 05CA903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		1186.181											1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					1186.251								9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18										1186.210			18
19						1186.406							19
20													20
21													21
22													22
23													23
24										1186.206			24
25							1186.331						25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1186.408 METRES ON JUN 19

MINIMUM OBSERVED DAILY WATER LEVEL, 1186.181 METRES ON FEB 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1186.505 METRES ON AUG 12/81
MIN. OBSERVED WATER LEVEL, 1184.849 METRES ON JAN 22/76

LAKE - STATION DESCRIPTION

STATION NAME:	CACHE LAKE NEAR HINTON
STATION NUMBER:	07AC906
LOCATION:	NW 17-52-26-W5 - From Highway #16, 24 km North on Highway #40, East to Beaver Ranch campground, South to Graveyard Lake campground.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1971 - 1980; 1988 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: 1971 - 1980 water levels do not reflect actual lake levels due to beaver activity. Data from 1988 to present is actual lake water level. See Graveyard Lake file.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Cache Lake near Hinton

Station No. 07AC906

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						1149.234				1149.002*			1
2						1149.213							2
3													3
4	1149.000*					1149.146							4
5													5
6													6
7													7
8					1148.971*								8
9						1149.099	1149.386*						9
10						1149.075		1149.040					10
11					1148.987	1149.086							11
12					1148.992		1149.219						12
13													13
14													14
15						1149.266	1149.099						15
16						1149.265	1149.083						16
17													17
18					1149.044								18
19													19
20					1149.037								20
21					1149.043		1149.019						21
22													22
23													23
24						1149.094							24
25					1149.056			1149.140					25
26													26
27					1149.063								27
28						1149.056							28
29							1148.981						29
30													30
31							1149.006	1149.186					31
TOT	1149.000				9192.193	11491.534	8043.793	3447.366		1149.002			TOT
MEAN	1149.000x				1149.024x	1149.153x	1149.113x	1149.122x		1149.002x			MEAN
MAX	1149.000				1149.063	1149.266	1149.386	1149.186		1149.002			MAX
MIN	1149.000				1148.971	1149.056	1148.981	1149.040		1149.002			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level:1149.386 Metres on JUL 9
Minimum Observed Daily Water Level:1148.971 Metres on MAY 8

HISTORICAL SUMMARY
Maximum Observed Daily Water Level:1149.765 Metres on 1983.10.03
Minimum Observed Daily Water Level:1148.121 Metres on 1979.02.21

Location: LSD NW Sec. 17 Tp. 052 Rge. 26 W5
Latitude: 53 29' Longitude: 117 48'

From Hwy #16, ~ 24 km N on Hwy #40, E to Beaver Ranch campground, S to Graveyard Lake campground.

Gauge Type: Outside Staff Gauge.
Period of Record: 1971-1990
Hydrographic Survey Map Available? YES
1971 - 1980 water levels do not reflect actual lake levels due to beaver activity. Data from 1988 to present is actual lake water level. See Graveyard Lake file. Previously

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: CACHE LAKE NEAR SPEDDEN

STATION NUMBER: 05ED903

LOCATION: 59-12-W4 - At bridge crossing Cache Creek on Highway #28, 3.2 km West of Spedden.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1976 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CACHE LAKE NEAR SPEDDEN

STATION NO. 05ED903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		633.475 B											1
2								633.376					2
3													3
4										633.305			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					633.563								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 633.563 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 633.305 METRES ON OCT 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 635.006 METRES ON JUN 08/79
MIN. OBSERVED WATER LEVEL, 633.275 METRES ON OCT 20/89

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: CADOTTE RIVER AT OUTLET CADOTTE LAKE

STATION NUMBER: 07HB001

LOCATION: 86-16-W5 - From Highway #2 near Peace River, 71 km Northeast on Secondary #686 to Cadotte River, 0.2 km South.

GAUGE TYPE: Recording

PERIOD OF RECORD: 1984 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake (Cadotte North) constructed in 1970. 1983 record compiled by Alberta Department of Environment at station CADOTTE LAKE NEAR CADOTTE (07HB901). 1984 to present data supplied by Water Resource Branch of Environment Canada. This is operated as a discharge station, but water levels are obtained above the control structure.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Cadotte River at Outlet Cadotte Lake

Station No. 07HB001

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1				568.270	568.353	568.298	568.311	568.183	568.111	568.045			1
2				568.274	568.355	568.305	568.308	568.174	568.103	568.045			2
3				568.280	568.360	568.306	568.303	568.172	568.101	568.044			3
4				568.283	568.365	568.303	568.304	568.172	568.097	568.047			4
5			568.259	568.284	568.375	568.302	568.301	568.169	568.099	568.046			5
6			568.258	568.285	568.373	568.302	568.293	568.154	568.098	568.047			6
7			568.257	568.287	568.379	568.299	568.289	568.140	568.090	568.046			7
8			568.257	568.289	568.392	568.297	568.286	568.142	568.088	568.046			8
9			568.257	568.288	568.389	568.299	568.279	568.146	568.087	568.042			9
10			568.257	568.286	568.392	568.297	568.274	568.139	568.083	568.042			10
11			568.257	568.284	568.392	568.304	568.270	568.136	568.088	568.051			11
12			568.257	568.284	568.386	568.385	568.265	568.138	568.075	568.049			12
13			568.256	568.284	568.384	568.497	568.247	568.133	568.082	568.044			13
14			568.256	568.282	568.375	568.521	568.231		568.078	568.039			14
15			568.256	568.283	568.375	568.509	568.235		568.083	568.046			15
16			568.255	568.284	568.371	568.490	568.236		568.071	568.047			16
17			568.255	568.287	568.368	568.468	568.231		568.075	568.047			17
18			568.256	568.291	568.360	568.444	568.228		568.080	568.046			18
19			568.260	568.299	568.359	568.423	568.231		568.070	568.041			19
20			568.266	568.311	568.356	568.405	568.227		568.075	568.045			20
21			568.266	568.320	568.351	568.388	568.227		568.074	568.047			21
22			568.265	568.327	568.356	568.377	568.227	568.113	568.071	568.049			22
23			568.263	568.331	568.345	568.353	568.219	568.110	568.062	568.049			23
24			568.262	568.333	568.342	568.343	568.220	568.116	568.054	568.048			24
25			568.260	568.339	568.344	568.329	568.222	568.112	568.049	568.048			25
26			568.259	568.348	568.336	568.321	568.214	568.115	568.049	568.048			26
27			568.258	568.350	568.333	568.313	568.197	568.111	568.047	568.051			27
28			568.259	568.347	568.330	568.305	568.197	568.105	568.057	568.046			28
29			568.263	568.347	568.313	568.303	568.197	568.107	568.044	568.047			29
30			568.266	568.347	568.304	568.301	568.195	568.102	568.044				30
31			568.269		568.301		568.191	568.110					31
TOT			15343.009	17049.104	17619.114	17050.787	17615.655	13067.099	17042.285	16473.338			TOT
MEAN			568.260x	568.303	568.359	568.360	568.247	568.135x	568.076	568.046x			MEAN
MAX			568.269	568.350	568.392	568.521	568.311	568.183	568.111	568.051			MAX
MIN			568.255	568.270	568.301	568.297	568.191	568.102	568.044	568.039			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 568.521 Metres on JUN 14
Minimum Observed Daily Water Level: 568.039 Metres on OCT 14

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 568.521 Metres on 1990.06.14
Minimum Observed Daily Water Level: 567.810 Metres on 1982.10.06

Location: LSD SE Sec. 27 Tp. 86 Rge. 16 W5
Latitude: 56°29'12" Longitude: 116°25'58"

From junction of Hwy #2 and Sec #686, 71 km NE on #686 to Cadotte River crossing, then 200 m S to gauge on right bank.

Gauge Type: Water Level Recorder.
Period of Record: 1984-1990
Hydrographic Survey Map Available? NO
Discharge station above Ducks Unlimited control structure.
Water levels supplied by WSC and published by Alberta Environment.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	CAMP LAKE NEAR KINSELLA
STATION NUMBER:	05FB901
LOCATION:	48-11-W4 - 14.5 km North of Kinsella.
GAUGE TYPE:	None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.
PERIOD OF RECORD:	1974 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic Elevation verified May 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CAMP LAKE NEAR KINSELLA

STATION NO. 05FB901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1									692.731	692.735			1
2									692.730	692.744			2
3								692.746	692.730	692.744			3
4									692.720	692.734			4
5									692.740	692.724			5
6								692.736	692.740	692.724			6
7								692.726	692.729	692.733			7
8								692.725	692.729	692.723			8
9								692.725	692.719	692.733			9
10					692.802			692.715	692.719	692.723			10
11								692.715	692.729	692.723			11
12									692.728	692.712			12
13								692.734	692.718	692.722			13
14									692.728	692.722			14
15								692.734	692.728	692.722			15
16								692.734	692.728				16
17							692.780	692.744	692.727				17
18								692.723	692.737				18
19							692.779	692.733	692.737				19
20							692.779	692.733	692.727				20
21							692.769	692.743	692.717				21
22							692.769	692.743	692.726				22
23							692.769	692.742	692.716				23
24							692.768	692.732	692.716	692.646			24
25								692.732	692.716				25
26	692.709							692.722	692.716				26
27							692.768	692.722	692.725				27
28							692.768	692.721	692.715				28
29							692.767	692.721	692.725				29
30							692.767	692.731	692.715				30
31							692.757	692.731					31
TOTAL									20781.761				TOTAL
MEAN									692.725				MEAN
MAX									692.740				MAX
MIN									692.715				MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 692.802 METRES ON MAY 10

MINIMUM OBSERVED DAILY WATER LEVEL, 692.646 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 693.969 METRES ON JUL 11/74
MIN. OBSERVED WATER LEVEL, 692.646 METRES ON OCT 24/90

LAKE - STATION DESCRIPTION

STATION NAME:	CAPTAIN'S LAKE NEAR THORHILD
STATION NUMBER:	05EE908
LOCATION:	59-23-W4 - 11 km West and 7 km South of Thorhild.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1981 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	A Ducks Unlimited Control Structure was built in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CAPTAIN'S LAKE NEAR THORHILD

STATION NO. 05EC908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					635.143								8
9							635.047						9
10										DRY			10
11													11
12													12
13													13
14													14
15													15
16													16
17	635.013 B												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 635.143 METRES ON MAY 8

MINIMUM OBSERVED DAILY WATER LEVEL, DRY ON OCT 10
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 635.651 METRES ON MAY 17/82
MIN. OBSERVED WATER LEVEL, DRY ON OCT 10/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: CARDINAL LAKE AT QUEEN ELIZABETH PROVINCIAL PARK

STATION NUMBER: 07HA901

LOCATION: 83-24-W5 - From Grimshaw, 3 km North, 5 km West to park.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is no Ducks Unlimited control structure on this lake as indicated in 1983.
Hydrographic Survey 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Cardinal Lake at Queen Elizabeth Provincial Park

Station No. 07HA901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						644.385	644.439	644.342	644.226				1
2						644.369	644.434	644.336					2
3						644.371	644.430	644.328					3
4							644.432						4
5							644.433	644.314					5
6						644.367	644.440	644.313	644.226				6
7						644.369	644.433		644.224				7
8						644.355	644.424	644.304	644.210				8
9						644.371			644.208				9
10	644.109*					644.363	644.430	644.305	644.211				10
11							644.424	644.305	644.212				11
12							644.422	644.303	644.206				12
13						644.399		644.270					13
14					644.411*	644.421		644.272					14
15					644.402		644.396	644.242					15
16						644.462	644.393*	644.249					16
17						644.475	644.409	644.260					17
18						644.454	644.410	644.264					18
19						644.455	644.401	644.262	644.266				19
20							644.393	644.258	644.197				20
21					644.400	644.460			644.196				21
22					644.392	644.437			644.199				22
23					644.390	644.445			644.217				23
24					644.380	644.424		644.244	644.228*				24
25					644.400			644.238					25
26					644.372		644.368	644.235					26
27					644.370	644.419	644.354	644.222					27
28					644.380	644.419	644.344	644.221					28
29					644.378	644.413	644.342	644.214					29
30					644.372	644.421	644.341	644.219					30
31					644.379		644.342	644.222					31
TOT	644.109				8377.026	14177.054	14821.234	16106.742	9019.026				TOT
MEAN	644.109x				644.387x	644.412x	644.401x	644,270x	644.216x				MEAN
MAX	644.109				644.411	644.475	644.440	644.342	644.266				MAX
MIN	644.109				644.370	644.355	644.341	644.214	644.196				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 644.475 Metres on JUN 17
Minimum Observed Daily Water Level: 644.109 Metres on JAN 10

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 644.646 Metres on 1979.06.13
Minimum Observed Daily Water Level: 643.533 Metres on 1967.11.03

Location: LSD NE Sec. 22 Tp. 083 Rge. 24 W5
Latitude: 56 13' Longitude: 117 41'

From the jct. of Hwys #2 & #35, 1.6 km S, 5 km W to Queen Elizabeth Provincial Park. Levels taken on S end of beach.

Gauge Type: Outside Staff Gauge.
Period of Record: 1965-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey, 1983. There is no Ducks Unlimited structure on this lake as indicated in 1983.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: CHAPPELL LAKE NEAR ASHMONT

STATION NUMBER: 06AA903

LOCATION: 60-11-W4 - South side of Chappell Lake, 6.4 km North of Ashmont.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1969; 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: A Ducks Unlimited Control Structure was built across one bay within the lake and the outlet was ditched to roadway culverts in 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CHAPPELL LAKE NEAR ASHMONT

STATION NO. 06AA903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		614.730											1
2								614.833					2
3													3
4										614.763			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					614.991								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 614.991 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 614.730 METRES ON FEB 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 615.964 METRES ON JUL 23/72
MIN. OBSERVED WATER LEVEL, 614.661 METRES ON AUG 09/89

LAKE - STATION DESCRIPTION

STATION NAME: CHARLOTTE LAKE NEAR BONNYVILLE

STATION NUMBER: 06AC902

LOCATION: 61-05-W4 - East side of Charlotte Lake at Secondary #891.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1972 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake. A concrete variable control structure was constructed in 1978. (F.S.L. = 548.79 m)

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CHARLOTTE LAKE NEAR BONNYVILLE

STATION NO. 06AC902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								547.854					1
2													2
3										547.720			3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					548.045								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30	547.693 B												30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 548.045 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 547.693 METRES ON JAN 30
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 549.878 METRES ON MAY 30/75
MIN. OBSERVED WATER LEVEL, DRY ON FEB 11/88

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: CHICKAKOO LAKE NEAR STONY PLAIN

STATION NUMBER: 05EA904

LOCATION: 53-01-W5 - 8 km North, 4.8 km West of Stony Plain.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1985. Subtract 0.239 m from published data prior to 1985.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CHICKAKOO LAKE NEAR STONY PLAIN

STATION NO. 05EA904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						735.264	735.220	735.229	735.183				1
2						735.263	735.218	735.223	735.185				2
3						735.262	735.267	735.219	735.188				3
4						735.261	735.276	735.214	735.190				4
5						735.260	735.299	735.209	735.191				5
6						735.259	735.310	735.204	735.197				6
7						735.259	735.311	735.199	735.202				7
8						735.258	735.309	735.194	735.207				8
9						735.258	735.305	735.189	735.208				9
10						735.258	735.303	735.199	735.207				10
11					735.263	735.259	735.298	735.194	735.206				11
12					735.262	735.258	735.290	735.189	735.206	735.141			12
13					735.261	735.258	735.286	735.184	735.204				13
14					735.257	735.257	735.283	735.179	735.203				14
15					735.256	735.257	735.280	735.177	735.202				15
16	735.156				735.256	735.257	735.281	735.198	735.198				16
17					735.255	735.256	735.281	735.197	735.195				17
18					735.254	735.256	735.281	735.198	735.192				18
19					735.254	735.254	735.278	735.198	735.187				19
20					735.261	735.251	735.274	735.195					20
21					735.262	735.247	735.269	735.192	735.182				21
22					735.263	735.246	735.266	735.192	735.179				22
23					735.264	735.243	735.262	735.191	735.178				23
24					735.267	735.241	735.258	735.189	735.173				24
25					735.268	735.238		735.185	735.167				25
26					735.268	735.236		735.182	735.163				26
27					735.269	735.232	735.245	735.178	735.158				27
28					735.268	735.228	735.240	735.176	735.153				28
29					735.268	735.226	735.237	735.173	735.150				29
30					735.267	735.224	735.234	735.181	735.147				30
31					735.266		735.232	735.183					31
TOTAL						22057.526		22791.010					TOTAL
MEAN						735.251		735.194					MEAN
MAX						735.264		735.229					MAX
MIN						735.224		735.173					MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 735.311 METRES ON JUL 7

MINIMUM OBSERVED DAILY WATER LEVEL, 735.141 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 736.822 METRES ON AUG 07/79
MIN. OBSERVED WATER LEVEL, 735.141 METRES ON OCT 12/90

LAKE - STATION DESCRIPTION

STATION NAME: CHICKENHILL LAKE NEAR ST. PAUL

STATION NUMBER: 06AC903

LOCATION: 59-08-W4 - North side of Chickenhill Lake at Resort, 14.5 km East and 12.9 km North of St. Paul.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified in 1982.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CHICKENHILL LAKE NEAR ST. PAUL

STATION NO. 06AC903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								620.931					1
2													2
3										620.781			3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16					621.030								16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31	620.923												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 621.030 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 620.781 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 622.819 METRES ON JUN 12/74
MIN. OBSERVED WATER LEVEL, 620.781 METRES ON OCT 03/90

LAKE - STATION DESCRIPTION

STATION NAME: CHRISTINA LAKE NEAR CONKLIN

STATION NUMBER: 07CE903

LOCATION: 76-07-W4 - 3 km East of Conklin at Fred Thom's Resort.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1985 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CHRISTINA LAKE NEAR CONKLIN

STATION NO. 07CE903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						28.918	28.943	28.676	28.542	28.462			1
2						28.906	28.935	28.674	28.540	28.453			2
3						28.899	28.931	28.670	28.538	28.456			3
4						28.881	28.927	28.665		28.456			4
5						28.853	28.915	28.661		28.454			5
6						28.839	28.907	28.657		28.456			6
7						28.835	28.901	28.649	28.513	28.458			7
8						28.827	28.889	28.645	28.511	28.460			8
9						28.817	28.879	28.641	28.511	28.462			9
10						28.805	28.875	28.635	28.511	28.466			10
11						28.793	28.871	28.629	28.507	28.468			11
12						28.787	28.868	28.624	28.506	28.472			12
13						28.785	28.866	28.618	28.504	28.474			13
14						28.809	28.844	28.612	28.504	28.478			14
15					29.185	28.861	28.838	28.608	28.502	28.482			15
16						28.898	28.822	28.602	28.502	28.488			16
17						28.924	28.806	28.600	28.502	28.492			17
18						28.960	28.800	28.594	28.500	28.496			18
19						29.006	28.796	28.588	28.498	28.500			19
20						29.066	28.790	28.585	28.495	28.504			20
21						29.062	28.780	28.581	28.493	28.508			21
22						29.056	28.768	28.577	28.489	28.512			22
23						29.048	28.756	28.569	28.487	28.516			23
24						29.034	28.745	28.565	28.485	28.520			24
25					29.006	29.018	28.733	28.559	28.483	28.524			25
26					28.998	29.004	28.721	28.555	28.479	28.528			26
27					28.990	28.992	28.715	28.553	28.475	28.532			27
28					28.982	28.978	28.709	28.548	28.472	28.536			28
29					28.970	28.965	28.707	28.546	28.468	28.540			29
30					28.942	28.951		28.546	28.464	28.544			30
31					28.922		28.682	28.544		28.548			31
TOTAL						867.577		886.776		883.245			TOTAL
MEAN						28.919		28.606		28.492			MEAN
MAX						29.066		28.676		28.548			MAX
MIN						28.785		28.544		28.453			MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 29.185METRES ON ,MAY 15

MINIMUM OBSERVED DAILY WATER LEVEL, 28.453METRES ON ,OCT 2
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 29.539 METRES ON JUL 26/86
MIN. OBSERVED WATER LEVEL, 28.403 METRES ON OCT 15/87

LAKE - STATION DESCRIPTION

STATION NAME: CLAIRMONT LAKE NEAR CLAIRMONT

STATION NUMBER: 07GE902

LOCATION: 72-06-W6 - From Grande Prairie city centre 10.4 km North on Highway #2, 0.8 km East on 108th Avenue in Clairmont to Lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1972 - 1973; 1975 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a control structure on this lake licenced by the County of Grande Prairie. F.S.L. = 673.00 m when constructed in 1978. Data partially contributed by Ducks Unlimited

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Clairmont Lake near Clairmont

Station No. 07GE902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1								673.015					1
2				673.005									2
3							673.105*	673.005					3
4													4
5				673.055		673.027*	673.075		672.895*				5
6													6
7				673.145		673.105		672.943*	672.875				7
8													8
9					672.912*								9
10							673.086*		672.875				10
11					673.075								11
12										672.852			12
13							673.055						13
14													14
15										672.825			15
16													16
17					673.055								17
18					673.055				672.883*				18
19										672.825			19
20								672.925					20
21						673.131*							21
22	672.751*							672.891*					22
23							673.050*						23
24						673.115							24
25				673.095	673.055								25
26													26
27				673.105									27
28					673.055								28
29			673.005		672.925								29
30							673.015						30
31					672.995								31
TOT	672.751		673.005	3365.405	5384.127	2692.378	4038.386	3364.779	2691.528	2018.502			TOT
MEAN	672.751x		673.005x	673.081x	673.016x	673.094x	673.064x	672.956x	672.882x	672.834x			MEAN
MAX	672.751		673.005	673.145	673.075	673.131	673.105	673.015	672.895	672.852			MAX
MIN	672.751		673.005	673.005	672.912	673.027	673.015	672.891	672.875	672.825			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 673.145 Metres on APR 7
Minimum Observed Daily Water Level: 672.751 Metres on JAN 22

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 673.553 Metres on 1977.05.03
Minimum Observed Daily Water Level: 672.475 Metres on 1989.05.08

Location: LSD NE Sec. 25 Tp. 072 Rge. 06 W6
Latitude: 55 16' Longitude: 118 47'

From Hwy. #2, E on 108 Ave. for 0.8 km to bridge over outlet from lake, then 150 m E on trail to structure.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1972-1990
Hydrographic Survey Map Available? YES
Ducks Unlimited structure constructed in 1978 and licenced by the County of Grande Prairie. Ducks Unlimited monitor lake levels for ADOE from TBM 87-1; partially contributed

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: CLARKE LAKE NEAR KITSCOTY

STATION NUMBER: 05FE904

LOCATION: 48-03-W4 - Approximately 4 km South of Highway #619 on Highway #897.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1986 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic Elevations established in 1989. For published data prior to 1989, add 614.584 m for conversion to Geodetic Elevation.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CLARKE LAKE NEAR KITSCOTY

STATION NO. 05FE904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										641.637			1
2							641.863						2
3													3
4								641.797					4
5							641.873						5
6						641.877							6
7						641.902	641.883						7
8							641.888						8
9					641.961	641.907							9
10									641.714				10
11							641.878						11
12													12
13													13
14						641.902							14
15							641.843			641.616			15
16					641.941								16
17							641.847						17
18						641.882							18
19							641.828	641.765					19
20													20
21					641.936								21
22						641.867	641.808						22
23													23
24									641.662	641.624			24
25	641.632 B												25
26					641.917								26
27													27
28						641.837							28
29							641.817						29
30						641.873							30
31					641.882		641.807	641.734					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 641.961 METRES ON MAY 9

MINIMUM OBSERVED DAILY WATER LEVEL, 641.616 METRES ON OCT 15
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 642.239 METRES ON APR 30/87
MIN. OBSERVED WATER LEVEL, 641.577 METRES ON OCT 25/89

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: CLAUDE LAKE NEAR LAC LA BICHE

STATION NUMBER: 07CA903

LOCATION: 67-13-W4 - 6.4 km Northeast of Lac La Biche.

GAUGE TYPE: Level established by surveying.

PERIOD OF RECORD: 1975 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake. A steel sheet pile structure was constructed in 1978. (F.S.L. = 566.93 m)

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CLAUDE LAKE NEAR LAC LA BICHE

STATION NO. 07CA903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										565.741			1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15					566.032								15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29	565.864												29
30							565.886						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 566.032 METRES ON MAY 15

MINIMUM OBSERVED DAILY WATER LEVEL, 565.741 METRES ON OCT 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 567.922 METRES ON JUL 29/75
MIN. OBSERVED WATER LEVEL, 565.741 METRES ON OCT 01/90

LAKE - STATION DESCRIPTION

STATION NAME: CLEAR LAKE NEAR STAVELY

STATION NUMBER: 05AC901

LOCATION: 13-26-W4 - 11 km East of Claresholm and 13 km North of Highway #520 to park site.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1977 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Water Resources Branch, Environment Canada station 1983 - 1984.
Lake dry periods from 1985 - 1990.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CLEAR LAKE NEAR STAVELY

STATION NO. 05AC901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7						961.505							7
8													8
9													9
10													10
11													11
12				DRY									12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23										DRY			23
24													24
25													25
26													26
27													27
28													28
29													29
30								DRY					30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 961.505 METRES ON JUN 7

MINIMUM OBSERVED DAILY WATER LEVEL, DRY ON APR 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 964.808 METRES ON APR 28/78
MIN. OBSERVED LAKE DRY ON NUMEROUS OCCASIONS

LAKE - STATION DESCRIPTION

STATION NAME: COW LAKE NEAR ROCKY MOUNTAIN HOUSE

STATION NUMBER: 05DC902

LOCATION: 38-08-W5 - North side of Cow Lake, South of Rocky Mountain House on Highway #752

GAUGE TYPE: None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.

PERIOD OF RECORD: 1970 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1987. Add 0.563 m to published data prior to 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

COW LAKE NEAR ROCKY MOUNTAIN HOUSE

STATION NO. 05DC902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					1035.459								9
10													10
11													11
12													12
13													13
14								1035.566					14
15													15
16													16
17													17
18													18
19													19
20									1035.515				20
21													21
22													22
23													23
24										1035.471			24
25							1035.627						25
26								1035.566					26
27									1035.525				27
28													28
29													29
30													30
31	1035.386												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1035.627 METRES ON JUL 25

MINIMUM OBSERVED DAILY WATER LEVEL, 1035.386 METRES ON JAN 31
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1036.128 METRES ON AUG 12/81
MIN. OBSERVED WATER LEVEL, 1035.082 METRES ON JUL 17/85

LAKE - STATION DESCRIPTION

STATION NAME: CRIMSON LAKE NEAR ROCKY MOUNTAIN HOUSE

STATION NUMBER: 05DC903

LOCATION: 40-08-W5 - East side of Crimson Lake, 4.8 km West, 6.4 km North of Rocky Mountain House.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1961-1962; 1964 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1983. Add 0.465 m to published data prior to 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CRIMSON LAKE NEAR ROCKY MOUNTAIN HOUSE

STATION NO. 05DC903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		967.273						967.306					1
2								967.299					2
3						967.346	967.378	967.294					3
4							967.380	967.285					4
5						967.351		967.285					5
6						967.346	967.384	967.274					6
7						967.331	967.385	967.278					7
8							967.379	967.272					8
9						967.332	967.378	967.269					9
10					967.330	967.332	967.374	967.264					10
11						967.337	967.372	967.264					11
12								967.261					12
13					967.315		967.368	967.259					13
14						967.373	967.362	967.259					14
15					967.315	967.367	967.362	967.258					15
16					967.315								16
17					967.305	967.372							17
18					967.315	967.374							18
19					967.310								19
20					967.306								20
21						967.371							21
22					967.321	967.367							22
23					967.320	967.365	967.374						23
24						967.365		967.256		967.143			24
25					967.330	967.362	967.375	967.258					25
26					967.341	967.367	967.331	967.260					26
27					967.336	967.368							27
28					967.331		967.354						28
29					967.327		967.334						29
30							967.309						30
31					967.358		967.309						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 967.385 METRES ON JUL 7

MINIMUM OBSERVED DAILY WATER LEVEL, 967.143 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 968.017 METRES ON JUN 03/65
MIN. OBSERVED WATER LEVEL, 966.942 METRES ON AUG 28/84

LAKE - STATION DESCRIPTION

STATION NAME:	CROW INDIAN LAKE NEAR SKIFF
STATION NUMBER:	05AF901
LOCATION:	05-14-W4 - 14.5 km South of Skiff.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1977 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: **NO**

REMARKS: There is a Ducks Unlimited Control Structure on this lake at Sec 2-5-13-W4.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CROW INDIAN LAKE

STATION NO. 05AF901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2				28.429									2
3													3
4													4
5						28.459							5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18										28.520			18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28								28.551					28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 28.551METRES ON ,AUG 28

MINIMUM OBSERVED DAILY WATER LEVEL, 28.429METRES ON ,APR 2
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 28.993 METRES ON SEP 05/78
MIN. OBSERVED WATER LEVEL, 28.078 METRES ON AUG 29/80

LAKE - STATION DESCRIPTION

STATION NAME: CRYSTAL LAKE NEAR GRANDE PRAIRIE

STATION NUMBER: 07GE903

LOCATION: 71-06-W6 - From 100 Street, 1.1 km East on 116 Avenue to 94 Street, 0.4 km North to 121 Avenue, East to lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968; 1972-1973, 1975 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Photo Control Project completed 1978. Station relocated to Southwest side of lake (SE 36-71-6-W6) in summer of 1987. Previously monitored on East side (SW 31-71-5-W6). 1980-1986 publications contain bench mark errors. Contact Grande Prairie office for correct version.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Crystal Lake near Grande Prairie

Station No. 07GE903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3							681.707*						3
4													4
5						681.594*			681.483*				5
6													6
7								681.535*					7
8													8
9					681.610*								9
10							681.668*						10
11													11
12										681.433*			12
13													13
14													14
15													15
16													16
17													17
18									681.466*				18
19													19
20													20
21						681.710*							21
22								681.494*					22
23							681.626*						23
24	681.500*												24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	681.500				681.610	1363.304	2045.001	1363.029	1362.949	681.433			TOT
MEAN	681.500x				681.610x	681.652x	681.667x	681.515x	681.475x	681.433x			MEAN
MAX	681.500				681.610	681.710	681.707	681.535	681.483	681.433			MAX
MIN	681.500				681.610	681.594	681.626	681.494	681.466	681.433			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 681.710 Metres on JUN 21
Minimum Observed Daily Water Level: 681.433 Metres on OCT 12

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 681.777 Metres on 1977.05.10
Minimum Observed Daily Water Level: 681.092 Metres on 1981.10.23

Location: LSD SE Sec. 36 Tp. 071 Rge. 06 W6
Latitude: 55 22' Longitude: 118 57'

From 100 St., 1.1 km E on 116 Ave. to 94 St., 0.4 km N to 121 Ave., E to Lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO
Station at Bear Creek Park facilities on Crystal Lake; moved from Gorman Ranch on E side of lake in summer of 1987 (SW 31-71-5- W6). Photo control project completed, 1978.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	CUTBANK LAKE NEAR WEMBLEY
STATION NUMBER:	07GE904
LOCATION:	72-08-W6 - From Wembley, 1.6 km North to Highway #2 0.8 km East on Highway #2, 9.3 km North to lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1972; 1975 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	There is no Ducks Unlimited control structure on this lake as indicated in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Cutbank Lake near Wembley

Station No. 07GE904

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4										714.668*			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24	714.815*												24
25					714.811*								25
26													26
27							714.880*						27
28													28
29													29
30													30
31													31
TOT	714.815				714.811		714.880			714.668			TOT
MEAN	714.815x				714.811x		714.880x			714.668x			MEAN
MAX	714.815				714.811		714.880			714.668			MAX
MIN	714.815				714.811		714.880			714.668			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 714.880 Metres on JUL 27
Minimum Observed Daily Water Level: 714.668 Metres on OCT 4

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 716.524 Metres on 1977.06.03
Minimum Observed Daily Water Level: 714.668 Metres on 1990.10.04

Location: LSD NW Sec. 23 Tp. 072 Rge. 08 W6
Latitude: 55 15'   Longitude: 119 09'

From Wembley, 1.6 km N, 0.8 km E on Hwy #2, 9.3 km N of Hwy #2 to lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1972-1990
Hydrographic Survey Map Available? NO
There is no Ducks Unlimited control structure on this lake as indicated in 1983.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: CYGNET LAKE NEAR SYLVAN LAKE

STATION NUMBER: 05CC901

LOCATION: 38-28-W4 - 8 km East and 3.2 km South of Sylvan Lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1979 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: The Cygnet Lake Draingage District has a stabilization structure on this lake. This steel sheet pile structure was constructed in 1975. (F.S.L. = 931.47 m)
Geodetic elevation verified in 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

CYGNET LAKE NEAR SYLVAN LAKE

STATION NO. 05CC901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					931.398								8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24							931.407			931.127			24
25													25
26													26
27													27
28													28
29													29
30													30
31	931.143 B												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 931.407 METRES ON JUL 24

MINIMUM OBSERVED DAILY WATER LEVEL, 931.127 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 931.580 METRES ON MAY 10/83
MIN. OBSERVED WATER LEVEL, 930.786 METRES ON OCT 06/79

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: DAKIN LAKE NEAR ATMORE

STATION NUMBER: 07CA904

LOCATION: 67-17-W4 - The East end of Dakin Lake, 4.8 km South of Atmore.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1974 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1985. Subtract 0.322 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

DAKIN LAKE NEAR ATMORE

STATION NO. 07CA904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										603.018			1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14					603.289								14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29	603.216 B												29
30							603.149						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 603.289 METRES ON MAY 14

MINIMUM OBSERVED DAILY WATER LEVEL, 603.018 METRES ON OCT 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 604.316 METRES ON OCT 06/75
MIN. OBSERVED WATER LEVEL, 603.018 METRES ON OCT 01/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	DAPP LAKE NEAR WESTLOCK
STATION NUMBER:	07BC903
LOCATION:	62-25-W4 - 20.9 km North and 14.5 km East of Westlock.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1980 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited outlet control structure on this lake.
Geodetic elevation verified in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

DAPP LAKE NEAR WESTLOCK

STATION NO. 07BC903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					638.978								8
9							638.607						9
10										638.575			10
11													11
12													12
13													13
14													14
15													15
16													16
17	638.482												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 638.978 METRES ON MAY 8

MINIMUM OBSERVED DAILY WATER LEVEL, 638.482 METRES ON JAN 17
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 639.547 METRES ON AUG 07/86
MIN. OBSERVED WATER LEVEL, 638.354 METRES ON JAN 17/84

LAKE - STATION DESCRIPTION

STATION NAME: DEEP LAKE NEAR GRANDE PRAIRIE

STATION NUMBER: 07GE905

LOCATION: 72-07-W6 - From Grande Prairie city centre 16 km West on Highway #2, 7.2 km North, 0.8 km West, 1.5 km North, West to lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1972, 1975 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Deep Lake near Grande Prairie

Station No. 07GE905

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4										710.898*			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24	710.942*												24
25					711.043*								25
26													26
27							711.097*						27
28													28
29													29
30													30
31													31
TOT	710.942				711.043		711.097			710.898			TOT
MEAN	710.942x				711.043x		711.097x			710.898x			MEAN
MAX	710.942				711.043		711.097			710.898			MAX
MIN	710.942				711.043		711.097			710.898			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 711.097 Metres on JUL 27
Minimum Observed Daily Water Level: 710.898 Metres on OCT 4

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 712.403 Metres on 1977.06.03
Minimum Observed Daily Water Level: 710.846 Metres on 1989.07.31

Location: LSD NW Sec. 19 Tp. 72 Rge. 07 W6
Latitude: 55 15' Longitude: 119 04'

From Grande Prairie city centre, 16 km W on Hwy #2, 7.2 km N, 0.8 km W, 1.5 km N, W through field to lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1972-1990
Hydrographic Survey Map Available? NO

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: DILLBERRY LAKE NEAR WAINWRIGHT

STATION NUMBER: 05GA901

LOCATION: 41-01-W4 - On South end of Dillberry Lake, 56.3 km East and 29 km South of Wainwright.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1983. Subtract 0.917 m from published data prior to 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

DILLBERRY LAKE NEAR WAINWRIGHT

STATION NO. 05GA901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						619.366	619.364	619.341	619.265	619.179			1
2						619.404	619.364	619.338	619.262	619.179			2
3						619.402	619.399	619.332	619.257	619.179			3
4						619.403	619.381	619.334	619.255	619.169			4
5						619.404	619.379	619.335	619.251	619.169			5
6						619.431	619.384	619.328	619.247				6
7						619.428	619.383	619.323	619.247				7
8						619.425	619.382	619.315	619.249	619.170			8
9					619.413	619.430	619.376	619.315	619.247	619.170			9
10						619.433	619.378	619.313	619.242	619.165			10
11					619.417	619.428	619.373	619.315	619.243	619.165			11
12					619.407	619.430	619.363	619.308	619.240	619.170			12
13					619.405	619.425	619.354	619.305	619.238				13
14					619.405	619.425	619.343	619.305	619.232				14
15					619.406	619.415	619.328	619.315	619.233	619.165			15
16					619.406	619.415	619.338	619.320	619.231				16
17					619.407	619.415	619.343	619.297	619.228				17
18					619.405	619.410	619.338	619.306	619.228				18
19					619.410	619.403	619.335	619.296					19
20					619.408	619.395	619.333	619.286					20
21					619.406	619.394	619.332	619.286	619.228				21
22					619.405	619.390	619.330	619.289	619.223				22
23					619.405	619.379	619.328	619.280	619.223				23
24					619.402	619.377	619.328	619.266	619.214	619.170			24
25	619.367				619.401	619.374	619.332	619.278	619.209				25
26					619.396	619.373	619.332	619.276					26
27					619.386	619.364	619.339	619.280					27
28						619.379	619.344	619.275	619.184				28
29						619.379	619.348	619.265	619.184				29
30					619.366	619.379	619.344	619.257	619.184				30
31							619.347	619.265					31
TOTAL						18582.075	19199.942	19198.344					TOTAL
MEAN						619.402	619.353	619.301					MEAN
MAX						619.433	619.399	619.341					MAX
MIN						619.364	619.328	619.257					MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 619.433 METRES ON JUN 10

MINIMUM OBSERVED DAILY WATER LEVEL, 619.165 METRES ON OCT 10
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 620.233 METRES ON AUG 01/75
MIN. OBSERVED WATER LEVEL, 619.165 METRES ON OCT 10/90

LAKE - STATION DESCRIPTION

STATION NAME: DIMSDALE LAKE NEAR DIMSDALE

STATION NUMBER: 07GE918

LOCATION: 71-07-W6 - From Dimsdale, 0.8 km North, West through yard to lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1986 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake.
A steel plate and rock dam was constructed at F.S.L. = 683.06 m in 1979.
Previously monitored 1 km West as Station 07GE906 from 1975 - 1985.
Data partially contributed by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Dimsdale Lake near Dimsdale

Station No. 07GE918

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1					683.211	683.174	683.180						1
2				683.251	683.151	683.173	683.186						2
3					683.231	683.172							3
4					683.151	683.172		683.071		682.930*			4
5					683.301	683.171		683.082					5
6			683.451			683.170	683.214	683.072					6
7				683.401	683.351	683.171	683.223	683.063					7
8						683.170	683.213	683.060					8
9					683.251	683.160	683.203	683.052		682.961			9
10						683.275	683.203	683.047	682.951				10
11						683.377	683.193	683.042					11
12				683.301	683.251			683.037					12
13					683.151	683.883*		683.031					13
14				683.251	683.201			683.024					14
15					683.181	683.710*	683.162	683.023		682.911			15
16						683.437							16
17						683.334							17
18						683.329							18
19						683.238							19
20						683.235							20
21						683.234							21
22						683.232							22
23						683.234	683.141						23
24	683.180*				683.176*	683.235							24
25					683.174	683.237							25
26			683.301		683.172	683.185							26
27					683.171	683.176							27
28					683.170	683.177							28
29			683.281		683.170	683.177							29
30					683.173	683.179	683.111						30
31					683.173								31
TOT	683.180		2050.033	2733.204	12980.810	19131.417	7515.029	8196.604	682.951	2048.802			TOT
MEAN	683.180x		683.344x	683.301x	683.201x	683.265x	683.184x	683.050x	682.951x	682.934x			MEAN
MAX	683.180		683.451	683.401	683.351	683.883	683.223	683.082	682.951	682.961			MAX
MIN	683.180		683.281	683.251	683.151	683.160	683.111	683.023	682.951	682.911			MIN

x - Incomplete Data for Month
- Actual Surveyed Water Level
I - Ice Level
E - Estimate

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 683.883 Metres on JUN 13
Minimum Observed Daily Water Level: 682.911 Metres on OCT 15

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 683.883 Metres on 1990.06.13
Minimum Observed Daily Water Level: 682.682 Metres on 1988.01.15

Location: LSD NW Sec. 15 Tp. 71 Rge. 07 W6
Latitude: 55 09' Longitude: 118 59'

From Grande Prairie city centre, 12.0 km W on Hwy #2, 2.2 km S to "Bit Moore" farm, W to Ducks Unlimited structure.

Gauge Type: Outside Staff Gauge.
Period of Record: 1986-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure, steel plate and rock dam, constructed in 1979; FSL = 683.06 m. Previously monitored at W boundary of (15-71-70-W6) as station 07GE906 from 1975-85.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: DUNES PROJECT NEAR BEZANSON

STATION NUMBER: 07GE919

LOCATION: NE 18-71-03-W6 - From Bezanson, 9.6 km West on Highway #34, 6.4 km South on Sec. #670, 4.8 km East, 1.6 km South to farmyard, SSW on trail to control structure.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1982 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation established in 1988.
There is a Ducks Unlimited control structure on this lake constructed in 1982.
Data partially contributed by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Dunes Project near Bezanson

Station No. 07GE919

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2								633.359					2
3					633.509		633.349						3
4													4
5						633.499							5
6				633.319									6
7							633.519						7
8													8
9					633.269*								9
10									633.179				10
11													11
12									633.189				12
13													13
14													14
15													15
16									633.219	633.149			16
17				633.499									17
18										633.134*			18
19													19
20				633.519									20
21								633.279					21
22					633.289								22
23													23
24	632.926I				633.499								24
25				633.309									25
26						633.369							26
27													27
28					633.279								28
29													29
30							633.269						30
31					633.279					633.219			31
TOT	632.926			2533.646	3800.124	1266.868	1900.137	1266.638	1899.587	1899.502			TOT
MEAN	632.926x			633.411x	633.354x	633.434x	633.379x	633.319x	633.196x	633.167x			MEAN
MAX	632.926			633.519	633.509	633.499	633.519	633.359	633.219	633.219			MAX
MIN	632.926			633.309	633.269	633.369	633.269	633.279	633.179	633.134			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
- Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 633.519 Metres on JUL 7
Minimum Observed Daily Water Level: 632.926 Metres on JAN 24

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 633.597 Metres on 1983.08.03
Minimum Observed Daily Water Level: 632.608 Metres on 1989.01.26

Location: LSD NE Sec. 18 Tp. 071 Rge. 03 W6
Latitude: 55 09' Longitude: 118 26'

From Hwy #2, 17.6 km E on Hwy #34, 6.4 km S on Sec #670, 4.8 km E on gravel road, 1.6 km S to farmyard, SSW on trail to structure.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure constructed in 1982. Ducks Unlimited monitor lake levels for ADOE from TBM 87-2.
Geodetic Elevation established in 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	EARLIE LAKE NEAR KITSCOTY
STATION NUMBER:	05FE903
LOCATION:	48-03-W4 - 16.9 km South of Kitscoty and 4.3 km West.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1974 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic Elevation verified April 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

EARLIE LAKE NEAR KITSCOTY

STATION NO. 05FE903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					652.005								9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17							651.886						17
18													18
19													19
20													20
21													21
22													22
23													23
24										651.652			24
25	651.739												25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 652.005 METRES ON MAY 9

MINIMUM OBSERVED DAILY WATER LEVEL, 651.652 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 653.141 METRES ON MAR 29/74
MIN. OBSERVED WATER LEVEL, 651.652 METRES ON OCT 24/90

LAKE - STATION DESCRIPTION

STATION NAME:	ECCLES POND NEAR HINTON
STATION NUMBER:	07AD901
LOCATION:	53-22-W5 - From Hinton, 27.4 km Northeast on Highway #16, 1 km West to east end of pond.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1969 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	This is a man made lake which has evolved into natural controls.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Eccles Pond near Hinton

Station No. 07AD901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						1081.608	1081.646		1081.665				1
2						1081.594	1081.650			1081.653*			2
3						1081.592		1081.665	1081.665				3
4	1081.645*					1081.610							4
5						1081.649		1081.664					5
6							1081.779	1081.657					6
7							1081.703						7
8							1081.679						8
9					1081.458*								9
10					1081.465	1081.664	1081.652*	1081.648					10
11					1081.467	1081.690							11
12							1081.654	1081.648					12
13							1081.640						13
14						1081.698	1081.632						14
15						1081.693	1081.632						15
16						1081.679	1081.642	1081.674					16
17					1081.513	1081.681		1081.674					17
18					1081.511	1081.685		1081.666					18
19							1081.647	1081.666					19
20					1081.501		1081.649						20
21					1081.513	1081.678	1081.657						21
22						1081.676	1081.657						22
23						1081.658	1081.655						23
24						1081.653		1081.665					24
25					1081.564	1081.653							25
26					1081.560								26
27					1081.555		1081.667	1081.667					27
28						1081.645							28
29						1081.646	1081.677						29
30						1081.646							30
31					1081.648			1081.671					31
TOT	1081.645				11896.755	21633.098	19469.918	12979.965	2163.330	1081.653			TOT
MEAN	1081.645x				1081.523x	1081.655x	1081.662x	1081.664x	1081.665x	1081.653x			MEAN
MAX	1081.645				1081.648	1081.698	1081.779	1081.674	1081.665	1081.653			MAX
MIN	1081.645				1081.458	1081.592	1081.632	1081.648	1081.665	1081.653			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1081.779 Metres on JUL 6
Minimum Observed Daily Water Level:1081.458 Metres on MAY 9

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1081.779 Metres on 1990.07.06
Minimum Observed Daily Water Level:1080.970 Metres on 1976.01.26

Location: LSD SW Sec. 08 Tp. 053 Rge. 22 W5
Latitude: 53 27' Longitude: 117 12'

From Hinton, 27.4 km NE on Hwy #16 to "Obed" sign, 1 km W to E end of pond.

Gauge Type: Outside Staff Gauge.
Period of Record: 1969-1990
Hydrographic Survey Map Available? NO
Man made lake which has evolved into natural controls.
Geodetic Elevation revised 1982 and 1989. Note: "1081.725 m = max. WL in pond. At this elev. water will flow over road

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: EDEN LAKE NEAR BEACH CORNER

STATION NUMBER: 05EA907

LOCATION: 53-02-W5 - 1.6 km North of Highway #16 West at Eden Lake turnoff.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968-1972; 1974 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation revised in 1984. Add 0.089 m to published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

EDEN LAKE NEAR BEACH CORNER

STATION NO. 05EA907

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					735.777								11
12							735.849			735.696			12
13													13
14													14
15													15
16	735.537												16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 735.849 METRES ON JUL 12

MINIMUM OBSERVED DAILY WATER LEVEL, 735.537 METRES ON JAN 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 736.251 METRES ON MAY 09/72
MIN. OBSERVED WATER LEVEL, 735.224 METRES ON SEP 11/68

LAKE - STATION DESCRIPTION

STATION NAME:	FAIRFAX LAKE NEAR ROBB
STATION NUMBER:	07BA901
LOCATION:	46-18-W5 - On South side of Fairfax Lake, 24.9 km East and 23.3 km South of Robb.
GAUGE TYPE:	None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.
PERIOD OF RECORD:	1969-1970; 1972; 1974 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Tied to geodetic in 1983. Add 1287.81 m to convert previous data to geodetic elevations.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

FAIRFAX LAKE NEAR ROBB

STATION NO. 07BA901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		1317.156											1
2													2
3								1317.142					3
4								1317.140					4
5								1317.140					5
6								1317.138					6
7								1317.136					7
8													8
9													9
10					1317.166			1317.128					10
11								1317.126					11
12								1317.124					12
13								1317.124					13
14								1317.126					14
15													15
16										1317.132			16
17													17
18													18
19													19
20													20
21										1317.132			21
22													22
23													23
24								1317.148					24
25										1317.134			25
26							1317.143	1317.148					26
27							1317.144						27
28							1317.144						28
29							1317.145						29
30							1317.144						30
31							1317.146						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1317.166 METRES ON MAY 10

MINIMUM OBSERVED DAILY WATER LEVEL, 1317.124 METRES ON AUG 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1317.179 METRES ON OCT 05/89
MIN. OBSERVED WATER LEVEL, 1316.575 METRES ON JAN 15/75

LAKE - STATION DESCRIPTION

STATION NAME: FERGUSON LAKE NEAR CLAIRMONT

STATION NUMBER: 07GE907

LOCATION: 72-06-W6 - From Grande Prairie city centre, 9.6 km North on Highway #2, 2 km West, North to lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1975 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake, constructed in 1978 and reconstructed in 1983. F.S.L. = 671.16 m. Data partially contributed by Ducks Unlimited. Geodetic elevation revised 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Ferguson Lake near Clairmont

Station No. 07GE907

• DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2				671.248									2
3							671.230*						3
4													4
5				671.218		671.172*			671.047				5
6													6
7				671.228	671.198			671.093					7
8						671.158							8
9					671.208*								9
10							671.194*		671.008				10
11													11
12										671.009*			12
13													13
14													14
15										670.968			15
16													16
17													17
18									671.031				18
19										670.988			19
20													20
21			671.198			671.253*							21
22	671.078*							671.059					22
23							671.158*						23
24						671.198							24
25				671.228									25
26													26
27				671.228									27
28													28
29					671.168								29
30							671.138						30
31					671.188								31
TOT	671.078		671.198	3356.150	2684.762	2684.781	2684.720	1342.152	2013.086	2012.965			TOT
MEAN	671.078x		671.198x	671.230x	671.191x	671.195x	671.180x	671.076x	671.029x	670.988x			MEAN
MAX	671.078		671.198	671.248	671.208	671.253	671.230	671.093	671.047	671.009			MAX
MIN	671.078		671.198	671.218	671.168	671.158	671.138	671.059	671.008	670.968			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 671.253 Metres on JUN 21
Minimum Observed Daily Water Level: 670.968 Metres on OCT 15

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 671.456 Metres on 1979.05.30
Minimum Observed Daily Water Level: 670.173 Metres on 1978.11.10

Location: LSD NE Sec. 27 Tp. 072 Rge. 06 W6
Latitude: 55 16' Longitude: 118 52'

From Grande Prairie city centre, 9.6 km N on Hwy #2, 2 km W, N on trail to control structure.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1975-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited structure constructed in 1978. Structure rebuilt in 1983 (FSL = 671.16 m). Geodetic Elevation revised in 1984. Ducks Unlimited monitor lake levels for

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	FICKLE LAKE NEAR EDSON
STATION NUMBER:	07AF903
LOCATION:	51-19-W5 - From Highway #16, 21.4 km South on Highway #47, 9.7 km Northwest to lake.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation established 1982.
Hydrographic Survey 1968.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Pickle Lake near Edson

Station No. 07AF903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						977.977	977.586						1
2						977.979	977.582	977.440	977.411	977.420*			2
3						977.951		977.428	977.416				3
4	977.466					977.944		977.428					4
5							977.880	977.426					5
6							977.958	977.424					6
7						977.894	978.010		977.426				7
8						977.867							8
9					977.566*	977.839		977.390					9
10						977.806	977.944*	977.384					10
11						977.788		977.384					11
12							977.862	977.384					12
13							977.802	977.380					13
14						978.014	977.764						14
15						978.040	977.740						15
16						978.028							16
17								977.372					17
18					977.684								18
19					977.686		977.618		977.426				19
20					977.688		977.586	977.372					20
21							977.570	977.368					21
22						977.788	977.544						22
23						977.746							23
24					977.842	977.730		977.377					24
25					977.888	977.708							25
26					977.914			977.421	977.416				26
27					977.938		977.488						27
28					977.939	977.640	977.484	977.421					28
29						977.612	977.480						29
30						977.608	977.466						30
31					977.943			977.409					31
TOT	977.466				9778.088	18578.959	17598.364	16615.808	4887.095	977.420			TOT
MEAN	977.466x				977.809x	977.840x	977.687x	977.400x	977.419x	977.420x			MEAN
MAX	977.466				977.943	978.040	978.010	977.440	977.426	977.420			MAX
MIN	977.466				977.566	977.608	977.466	977.368	977.411	977.420			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 978.040 Metres on JUN 15
Minimum Observed Daily Water Level: 977.368 Metres on AUG 21

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 978.617 Metres on 1986.07.18
Minimum Observed Daily Water Level: 977.368 Metres on 1990.08.21

Location: LSD NE Sec. 32 Tp. 051 Rge. 19 W5
Latitude: 53 27'   Longitude: 116 45'

From Hwy. #16, 21.4 km S on Hwy. #47, 9.7 km NW to AFS campground on E side of lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1971-1990
Hydrographic Survey Map Available? YES
Geodetic Elevation established 1982. Hydrographic Survey 1968.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: FIGURE EIGHT LAKE NEAR BROWNVALE

STATION NUMBER: 07HA908

LOCATION: 84-25-W5 - From Brownvale, 19 km North, West to South end of lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1982 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is an Alberta Environment control structure on this lake constructed in 1973.
Hydrographic Survey 1986, completed by U of A. ADOE has area capacity curve only.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Figure Eight Lake near Brownvale

Station No. 07HA908

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	683.099*												8
9													9
10													10
11													11
12													12
13													13
14					683.104*								14
15													15
16							683.054*						16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24									682.838*				24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	683.099				683.104		683.054		682.838				TOT
MEAN	683.099x				683.104x		683.054x		682.838x				MEAN
MAX	683.099				683.104		683.054		682.838				MAX
MIN	683.099				683.104		683.054		682.838				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 683.104 Metres on MAY 14
Minimum Observed Daily Water Level: 682.838 Metres on SEP 24

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 683.171 Metres on 1986.05.21
Minimum Observed Daily Water Level: 682.838 Metres on 1990.09.24

Location: LSD NE Sec. 20 Tp. 084 Rge. 25 W5
Latitude: 56 18' Longitude: 117 55'

From Brownvale, 19 km N on Sec. #737, west to south end of lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1982-1990
Hydrographic Survey Map Available? YES
There is an ADOE control structure on this lake constructed in 1973. Hydrographic Survey 1986, completed by U of A. ADOE has area capacity curve only.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	FISH LAKE NEAR NORDEGG
STATION NUMBER:	05DC904
LOCATION:	40-15-W5 - East side of Fish Lake, 4.8 km West and 1.3 km South of Nordegg.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1973 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	**YES**
REMARKS:	Hydrographic survey map of the outflow structure area only. There is a Ducks Unlimited control structure on this lake. Geodetic elevation revised in 1987. Add 22.739 m to published data prior to 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

FISH LAKE NEAR NORDEGG

STATION NO. 05DC904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		1359.538			1359.701				1359.581				1
2									1359.622				2
3													3
4									1359.682				4
5													5
6									1359.675				6
7									1359.668				7
8													8
9									1359.657				9
10					1359.675				1359.671				10
11													11
12									1359.683				12
13									1359.703				13
14													14
15									1359.685				15
16									1359.706				16
17													17
18									1359.727				18
19													19
20													20
21									1359.717				21
22									1359.686				22
23					1359.724				1359.639				23
24													24
25					1359.767				1359.680	1359.644			25
26					1359.795		1359.754		1359.678				26
27					1359.808				1359.664				27
28					1359.806								28
29									1359.674				29
30									1359.654				30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1359.808 METRES ON MAY 27

MINIMUM OBSERVED DAILY WATER LEVEL, 1359.538 METRES ON FEB 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1360.095 METRES ON MAY 22/74
MIN. OBSERVED WATER LEVEL, 1359.159 METRES ON JAN 05/76

LAKE - STATION DESCRIPTION

STATION NAME: FLAT LAKE NEAR BOYLE

STATION NUMBER: 07CA905

LOCATION: 65-20-W4 - The South side of Flat Lake at by inlet.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1958-1959; 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Water Survey of Canada operated station 05CA002 "Near Stocks" 1918-1930. There is a Ducks Unlimited Control Structure on this lake. (Concrete weir with control gate; F.S.L. = 587.84 m) This structure was constructed in 1972. During the period 1981 to 1984, levels were taken at outlet control on North side of lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

FLAT LAKE NEAR BOYLE

STATION NO. 07CA905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6											587.010 B		6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14					587.273								14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30							587.119						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 587.273 METRES ON MAY 14

MINIMUM OBSERVED DAILY WATER LEVEL, 587.010 METRES ON NOV 6
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 588.572 METRES ON NOV 10/70
MIN. OBSERVED WATER LEVEL, 586.907 METRES ON FEB 01/83

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	FLOATINGSTONE LAKE NEAR SPEDDEN
STATION NUMBER:	06AA904
LOCATION:	60-11-W4 - South side of Floatingstone lake, 6.4 km East and 8.4 km North of Spedden.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

FLOATINGSTONE LAKE NEAR SPEDDEN

STATION NO. 06AA904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		601.836						601.863	601.847				1
2							601.894	601.869					2
3						601.939		601.867					3
4						601.934	601.948	601.864		601.774			4
5						601.923	601.938	601.857	601.833				5
6						601.923	601.938	601.862					6
7						601.928	601.938						7
8							601.938	601.837	601.839				8
9						601.923	601.942	601.835					9
10						601.918	601.937	601.837	601.828				10
11						601.935	601.931						11
12							601.932	601.834					12
13						601.932		601.810					13
14						601.937		601.822					14
15							601.906	601.822	601.833				15
16						601.931	601.904	601.842	601.823				16
17					601.975		601.911	601.840					17
18						601.921	601.901	601.844					18
19						601.921	601.901	601.847					19
20							601.910	601.847					20
21					601.971	601.921	601.898	601.847					21
22					601.966	601.910	601.888	601.857	601.805				22
23					601.951	601.910	601.890						23
24					601.956	601.905	601.900						24
25					601.957	601.905	601.884	601.827					25
26					601.963	601.905	601.886	601.847					26
27					601.954	601.894	601.880	601.847					27
28					601.955	601.884	601.886						28
29					601.945		601.873	601.837	601.783				29
30					601.950		601.869	601.832	601.779				30
31					601.944		601.868						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 601.975 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 601.774 METRES ON OCT 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 603.056 METRES ON JUN 13/74
MIN. OBSERVED WATER LEVEL, 601.774 METRES ON OCT 04/90

LAKE - STATION DESCRIPTION

STATION NAME: FLOOD LAKE NEAR CHINOOK VALLEY

STATION NUMBER: 07HA905

LOCATION: 36-86-25-W5 - From Chinook Valley, 11.5 km West, 2.5 km North, East to farm yard, South to lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1980 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Error corrected in historical summary, 1982. There is a Ducks Unlimited control structure on this lake constructed in October 1985 and reinstalled in 1986 after spring washout.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Flood Lake near Chinook Valley

Station No. 07HA905

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						632.878	632.953	632.772	632.667				1
2						632.877	632.963	632.770	632.661				2
3						632.873	632.959	632.764	632.663				3
4						632.873	632.953	632.758	632.661				4
5						632.867	632.939	632.754	632.659				5
6						632.869	632.935	632.744	632.657				6
7						632.869	632.926	632.740	632.655				7
8							632.916	632.734	632.651				8
9	632.861*						632.914	632.726	632.649				9
10							632.904	632.722	632.645				10
11							632.894	632.718	632.643				11
12							632.886	632.716	632.641				12
13							632.868	632.714	632.639				13
14						633.256	632.851	632.710	632.637				14
15					632.920*	633.462	632.859	632.710	632.635				15
16					632.918	633.589	632.859	632.708	632.633				16
17					632.916	633.648E	632.854*	632.706	632.635				17
18					632.912	633.674E	632.849	632.706	632.633				18
19					632.907	633.479	632.841	632.705	632.623				19
20					632.903	633.327	632.837	632.699	632.631				20
21					632.898	633.209	632.833	632.697	632.631				21
22					632.883	633.121	632.827	632.691	632.629				22
23					632.881	633.046	632.821	632.687	632.621				23
24					632.879	633.008	632.815	632.691	632.615				24
25					632.881	632.978	632.813	632.687	632.611*				25
26					632.878	632.964	632.807	632.685					26
27					632.880	632.940	632.797	632.679					27
28					632.878	632.940	632.794	632.675					28
29					632.886	632.918	632.790	632.675					29
30					632.884	632.921	632.782	632.671					30
31					632.882		632.778	632.671					31
TOT	632.861				10759.186	15194.586	19618.817	19614.085	15816.025				TOT
MEAN	632.861x				632.893x	633.108x	632.865	632.712	632.641x				MEAN
MAX	632.861				632.920	633.674	632.963	632.772	632.667				MAX
MIN	632.861				632.878	632.867	632.778	632.671	632.611				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 633.674 Metres on JUN 18
Minimum Observed Daily Water Level: 632.611 Metres on SEP 25

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 634.084 Metres on 1983.07.31
Minimum Observed Daily Water Level: 632.119 Metres on 1986.10.07

Location: LSD NW Sec. 36 Tp. 086 Rge. 25 W5
Latitude: 56 30' Longitude: 117 49'

From Chinook Valley, 11.5 km W, 2.5 km N, east to farm yard, south along trail to duck baiting station by lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1980-1990
Hydrographic Survey Map Available? NO
Expanded to staff gauge 1981. Ducks Unlimited control structure constructed in 1985, washed-out in spring of 1986, then rebuilt that summer. Deepest point near west end of

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: FLYINGSHOT LAKE NEAR GRANDE PRAIRIE

STATION NUMBER: 07GE908

LOCATION: 71-06-W6 - From Grande Prairie city centre, 4.8 km West, 2.6 km South, 0.5 km Southwest.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968; 1972-1973; 1975 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: A Ducks Unlimited Structure was built on this lake in 1984, not in 1982 as previously reported.
Bench mark error 1980 - 1987. For revised data contact Grande Prairie office.
Data partially contributed by Ducks Unlimited.
Geodetic Elevation revised 1980 and 1987 from GSC 395-H.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Flyingshot Lake near Grande Prairie

Station No. 07GE908

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2					650.815								2
3							650.905						3
4				650.915	650.825	650.805				650.622*			4
5							650.895						5
6							650.895						6
7				650.915				650.695					7
8						650.795							8
9					650.845*		650.855						9
10									650.625				10
11					650.795								11
12						650.915							12
13					650.815		650.815						13
14													14
15					650.795	651.150*	650.785			650.585			15
16													16
17						651.095	650.765						17
18					650.815					650.585			18
19													19
20				650.855									20
21			650.945			651.065							21
22					650.815	651.015							22
23						650.995	650.831*						23
24	650.774*												24
25						650.975							25
26			650.915			650.965	650.765						26
27			650.915	650.865									27
28													28
29			650.915			650.945							29
30							650.745						30
31					650.805								31
TOT	650.774		2603.690	2603.550	5857.325	7160.720	6508.256	650.695	650.625	1951.792			TOT
MEAN	650.774x		650.923x	650.888x	650.814x	650.975x	650.826x	650.695x	650.625x	650.597x			MEAN
MAX	650.774		650.945	650.915	650.845	651.150	650.905	650.695	650.625	650.622			MAX
MIN	650.774		650.915	650.855	650.795	650.795	650.745	650.695	650.625	650.585			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 651.150 Metres on JUN 15
Minimum Observed Daily Water Level: 650.585 Metres on OCT 15

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 651.484 Metres on 1982.05.27
Minimum Observed Daily Water Level: 650.199 Metres on 1968.01.08

Location: LSD SE Sec. 17 Tp. 071 Rge. 06 W6
Latitude: 55 07'   Longitude: 118 52'

From Grande Prairie city centre, 4.8 km W on Hwy. #2, 2.6 km S, 0.5 km SW to bridge.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1968-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure built 1984. Ducks Unlimited monitor lake levels for ADOE from TBM 87-1.
Geodetic Elevatoin revised 1980 and 1987 from GSC 395-H

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: FOOTNER LAKE NEAR HIGH LEVEL

STATION NUMBER: 07JF901

LOCATION: NE 5-111-19-W5 - From Highway #58, 10.5 km North on Highway #35, and 1.6 km West on airport road to pumphouse at lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic Elevation established 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Footner Lake near High Level

Station No. 07JF901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1								328.257					1
2								328.266					2
3							328.290	328.277					3
4							328.284		328.266				4
5							328.279		328.267				5
6							328.275		328.262				6
7								328.297	328.261				7
8								328.301					8
9							328.253	328.298					9
10	328.152						328.249	328.298	328.259				10
11							328.248		328.255				11
12							328.247		328.257				12
13							328.296	328.289	328.253				13
14								328.288	328.249				14
15					328.444*			328.281					15
16							328.267	328.273					16
17							328.254	328.267	328.254				17
18							328.240*		328.239				18
19							328.243		328.257				19
20							328.238	328.277	328.242				20
21							328.229	328.280	328.241				21
22							328.220	328.271	328.235				22
23								328.291					23
24								328.288					24
25							328.217		328.219*				25
26							328.214						26
27							328.210	328.283					27
28								328.281					28
29								328.282					29
30							328.205	328.280					30
31							328.210	328.274					31
TOT	328.152				328.444		6893.168	7222.199	5252.016				TOT
MEAN	328.152x				328.444x		328.246x	328.282x	328.251x				MEAN
MAX	328.152				328.444		328.296	328.301	328.267				MAX
MIN	328.152				328.444		328.205	328.257	328.219				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month * - Actual Surveyed Water Level
I - Ice Level E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 328.444 Metres on MAY 15
Minimum Observed Daily Water Level: 328.152 Metres on JAN 10

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 328.620 Metres on 1988.07.04
Minimum Observed Daily Water Level: 328.102 Metres on 1989.09.26

Location: LSD NE Sec. 05 Tp. 111 Rge. 19 W5
Latitude: 58 36' Longitude: 117 10'

From Hwy #58, ~10.5 km N on Hwy #35, ~1.6 km W on airport road to pump house on lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO
Geodetic Elevation established 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: FORK LAKE NEAR LAC LA BICHE

STATION NUMBER: 06AA905

LOCATION: 63-11-W4 - South side of Fork Lake, 35.4 km South and 29 km East of Lac La Biche.

GAUGE TYPE: None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake. A sheet pile weir was constructed in 1973. Water levels assumed prior to 1972.
Geodetic elevation revised in 1988. Subtract 0.054 m from published data prior to 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

FORK LAKE NEAR LAC LA BICHE

STATION NO. 06AA905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						586.683	586.620	586.597	586.516				1
2						586.672	586.615	586.618	586.521	586.460			2
3						586.687		586.587					3
4						586.657	586.687						4
5						586.667	586.674	586.577	586.519				5
6						586.656	586.678						6
7						586.651	586.678						7
8						586.651	586.673	586.567	586.513				8
9						586.651	586.658	586.567					9
10						586.650	586.657	586.559					10
11						586.655	586.672	586.550					11
12							586.669	586.555					12
13						586.630		586.552					13
14						586.644		586.542					14
15						586.639	586.666	586.540	586.507				15
16					586.713	586.654							16
17					586.703			586.533					17
18					586.706	586.643		586.544					18
19					586.702	586.653		586.544					19
20					586.701	586.653	586.643	586.536					20
21					586.707	586.632	586.645	586.546					21
22					586.700	586.635	586.636	586.571	586.480				22
23					586.694	586.635			586.484				23
24					586.700		586.634	586.531					24
25					586.691	586.613	586.623	586.531					25
26					586.684	586.611	586.626	586.521					26
27					586.679	586.621	586.628						27
28					586.681	586.616							28
29					586.678	586.625	586.607	586.519					29
30	586.599				586.668	586.620	586.602	586.518					30
31					586.683		586.606	586.516					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 586.713 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 586.460 METRES ON OCT 2
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 588.517 METRES ON JAN 22/74
MIN. OBSERVED WATER LEVEL, 586.460 METRES ON OCT 02/90

LAKE - STATION DESCRIPTION

STATION NAME: FREEMAN LAKE NEAR SWAN HILLS

STATION NUMBER: 07AH902

LOCATION: 66-11-W5 - East side of Freeman Lake, 9.7 km West and 2.1 km South of Swan Hills.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1972 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified May 1978. Geodetic Elevations verified again in 1981. Water levels are assumed 1972- 1974, geodetic 1974 to 1981.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

FREEMAN LAKE NEAR SWAN HILLS

STATION NO. 07AH902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					1078.620								9
10							1078.788						10
11										1078.651			11
12													12
13													13
14													14
15													15
16													16
17													17
18	1078.417												18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1078.788 METRES ON JUL 10

MINIMUM OBSERVED DAILY WATER LEVEL, 1078.417 METRES ON JAN 18
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1079.068 METRES ON MAY 06/87
MIN. OBSERVED WATER LEVEL, 1077.648 METRES ON FEB 05/80

LAKE - STATION DESCRIPTION

STATION NAME:	FROG LAKE NEAR ELK POINT
STATION NUMBER:	05ED904
LOCATION:	56-03-W4 - West side of Frog Lake, 36.2 km East, and 3.2 km South of Elk Point.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

FROG LAKE NEAR ELK POINT

STATION NO. 05ED904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								573.346					1
2													2
3										573.198			3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					573.372								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31	573.284												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 573.372 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 573.198 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 574.889 METRES ON JUN 11/74
MIN. OBSERVED WATER LEVEL, 573.198 METRES ON OCT 03/90

LAKE - STATION DESCRIPTION

STATION NAME: GABRIEL LAKE NEAR BENTLEY

STATION NUMBER: 05CC902

LOCATION: 40-04-W5 - 9.7 km Northwest of Eckville.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation verified in 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

GABRIEL LAKE NEAR BENTLEY

STATION NO. 05CC902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					944.033								11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24							944.598			944.260			24
25													25
26													26
27													27
28													28
29													29
30													30
31	943.751												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL. 944.598 METRES ON JUL 24

MINIMUM OBSERVED DAILY WATER LEVEL. 943.751 METRES ON JAN 31
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 944.935 METRES ON APR 26/71
MIN. OBSERVED WATER LEVEL, 942.350 METRES ON JAN 27/78

LAKE - STATION DESCRIPTION

STATION NAME: GARNER LAKE NEAR SPEDDEN

STATION NUMBER: 06AA906

LOCATION: 60-12-W4 - South side of Garner Lake, 4 km North of Spedden.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1985. Subtract 2.457 m from published data prior to 1985.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

GARNER LAKE NEAR SPEDDEN

STATION NO. 06AA906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		604.753						604.761	604.727				1
2							604.783	604.756					2
3						604.818		604.751	604.722				3
4						604.810	604.843	604.746		604.638			4
5						604.805	604.838	604.741	604.717				5
6						604.810			604.717				6
7						604.815			604.713				7
8							604.833	604.731					8
9						604.810	604.823	604.726					9
10						604.809	604.827	604.724	604.707				10
11						604.814	604.822	604.726					11
12							604.823	604.724					12
13						604.819		604.701	604.717				13
14						604.814		604.711	604.715				14
15						604.814		604.711					15
16						604.814	604.797	604.732					16
17						604.809	604.802	604.724					17
18					604.854	604.809	604.802	604.735					18
19						604.807	604.797	604.735	604.694				19
20							604.796	604.735					20
21						604.807	604.790	604.732					21
22						604.802	604.792	604.732	604.682				22
23					604.841	604.799	604.797	604.732	604.678				23
24					604.844	604.799	604.792	604.717					24
25						604.798	604.791	604.712					25
26						604.793	604.791	604.712					26
27					604.836	604.788	604.781	604.722					27
28					604.835	604.783	604.786						28
29					604.829		604.766	604.712	604.658				29
30					604.825		604.766	604.707	604.650				30
31					604.825		604.761						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 604.854 METRES ON MAY 18

MINIMUM OBSERVED DAILY WATER LEVEL, 604.638 METRES ON OCT 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 606.137 METRES ON JUN 08/79
MIN. OBSERVED WATER LEVEL, 604.638 METRES ON OCT 04/90

LAKE - STATION DESCRIPTION

STATION NAME:	GEORGE LAKE (EAST) NEAR HINES CREEK	
STATION NUMBER:	07FD916	
LOCATION:	83-04-W6 -	From Secondary #685 near Hines Creek, 4.5 km Southeast on Highway #64, Northeast to East end of lake.
GAUGE TYPE:	None. Level established by surveying.	
PERIOD OF RECORD:	1980 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There are Alberta Environment and Ducks Unlimited control structures on this lake constructed in 1974. Geodetic elevation revised in 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

George Lake (East) near Hines Creek

Station No. 07FD916

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	652.529*												8
9													9
10													10
11													11
12													12
13													13
14					652.730*								14
15													15
16							652.713*						16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24									652.333				24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	652.529				652.730		652.713		652.333				TOT
MEAN	652.529x				652.730x		652.713x		652.333x				MEAN
MAX	652.529				652.730		652.713		652.333				MAX
MIN	652.529				652.730		652.713		652.333				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month   * - Actual Surveyed Water Level
I - Ice Level   E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 652.730 Metres on MAY 14
Minimum Observed Daily Water Level: 652.333 Metres on SEP 24

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 652.904 Metres on 1983.07.07
Minimum Observed Daily Water Level: 652.003 Metres on 1980.09.24

Location: LSD SE Sec. 27 Tp. 083 Rge. 04 W6
Latitude: 56 13'   Longitude: 118 34'

From Sec #685, 4.5 km SE on Hwy #64, NE ~1.5 km to campsite at east end of lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1980-1990
Hydrographic Survey Map Available? YES
Water level controlled by Alberta Environment and Ducks Unlimited control structures constructed in 1974. Geodetic Elevation revised in 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: GEORGE LAKE (WEST) NEAR HINES CREEK

STATION NUMBER: 07FD917

LOCATION: 83-04-W6 - From Hines Creek, 2.3 km Southeast on Highway #64 to lake West of Highway

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1980 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited Control Structure on this lake constructed in 1974. Geodetic elevation revised in 1988. Data contributed by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

George Lake (West) near Hines Creek

DAILY WATER LEVEL IN METRES FOR 1990

Station No. 07FD917

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2					651.881			651.671					2
3													3
4													4
5													5
6													6
7													7
8	651.671*												8
9													9
10								651.691					10
11				652.181									11
12													12
13										651.511			13
14					651.814*								14
15									651.541				15
16					651.881		651.693*						16
17													17
18													18
19							651.741						19
20													20
21													21
22													22
23					651.821								23
24							651.721		651.495	651.521			24
25						651.771							25
26													26
27					651.851								27
28													28
29													29
30													30
31													31
TOT	651.671			652.181	3259.248	651.771	1955.155	1303.362	1303.036	1303.032			TOT
MEAN	651.671x			652.181x	651.850x	651.771x	651.718x	651.681x	651.518x	651.516x			MEAN
MAX	651.671			652.181	651.881	651.771	651.741	651.691	651.541	651.521			MAX
MIN	651.671			652.181	651.814	651.771	651.693	651.671	651.495	651.511			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 652.181 Metres on APR 11
Minimum Observed Daily Water Level: 651.495 Metres on SEP 24

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 652.181 Metres on 1990.04.11
Minimum Observed Daily Water Level: 651.246 Metres on 1983.02.02

Location: LSD NE Sec. 29 Tp. 083 Rge. 04 W6
Latitude: 56 13' Longitude: 118 35'

From Hines Creek, 2.3 km SE on Hwy #64 to where George East and George West meet, on W side of highway.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1980-1990
Hydrographic Survey Map Available? NO
There is a Ducks Unlimited control structure on this lake built in 1974. Data contributed by Ducks Unlimited from TBM 88-1. Geodetic Elevation revised 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	GERRY LAKE NEAR HINES CREEK
STATION NUMBER:	07FD904
LOCATION:	84-02-W6 - From Highway #64 near Hines Creek, 12 km East, 3.5 km North and East, 3.2 km North, 3.8 km East, North to lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1973-1979; 1981 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Levels 1973-1979 were not Gerry Lake proper but an adjacent pond.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Gerry Lake near Hines Creek

Station No. 07FD904

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	666.746*												8
9													9
10													10
11													11
12													12
13													13
14					666.940*								14
15													15
16							666.805*						16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24									666.489*				24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	666.746				666.940		666.805		666.489				TOT
MEAN	666.746x				666.940x		666.805x		666.489x				MEAN
MAX	666.746				666.940		666.805		666.489				MAX
MIN	666.746				666.940		666.805		666.489				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 666.940 Metres on MAY 14
Minimum Observed Daily Water Level: 666.489 Metres on SEP 24

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 667.294 Metres on 1986.05.21
Minimum Observed Daily Water Level: 666.489 Metres on 1990.09.24

Location: LSD SW Sec. 17 Tp. 084 Rge. 02 W6
Latitude: 56 17' Longitude: 118 16'

From Hwy #64 at Hines Creek, 12.0 km E on Sec #685, N and E 3.5 km, 3.2 km N, and 3.8 km E to N-S fenceline, N to lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1973-1990
Hydrographic Survey Map Available? NO
1973 - 1979 water levels were not Gerry Lake proper, but an adjacent slough.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	GHOST LAKE NEAR ATHABASCA
STATION NUMBER:	07BE903
LOCATION:	68-24-W4 - Northwest of Athabasca, approx. 1 mile West of Highway #2.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1984. Subtract 3.182 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

GHOST LAKE NEAR ATHABASCA

STATION NO. 07BE903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					627.746								8
9							627.720						9
10										627.488			10
11													11
12													12
13													13
14													14
15													15
16													16
17	627.638												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 627.746 METRES ON MAY 8

MINIMUM OBSERVED DAILY WATER LEVEL, 627.488 METRES ON OCT 10
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 628.501 METRES ON JUN 29/83
MIN. OBSERVED WATER LEVEL, 627.469 METRES ON JAN 26/88

LAKE - STATION DESCRIPTION

STATION NAME: GOLDEYE LAKE NEAR NORDEGG

STATION NUMBER: 05DC905

LOCATION: 40-16-W5 - 10.5 km West of Nordegg, North 1.3 km off Highway #11.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1983. Add 22.941 m to published data prior to 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

GOLDEYE LAKE NEAR NORDEGG

STATION NO. 05DC905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		1370.016				1370.273	1370.326	1370.287					1
2									1370.294				2
3							1370.346	1370.287					3
4						1370.238	1370.346	1370.285	1370.293				4
5						1370.230	1370.342	1370.278	1370.295	1370.286			5
6						1370.228	1370.366	1370.268					6
7						1370.224		1370.258	1370.287				7
8						1370.222		1370.256					8
9								1370.248					9
10					1370.138		1370.277						10
11							1370.237	1370.243					11
12						1370.311	1370.225		1370.281				12
13							1370.225	1370.240					13
14					1370.175			1370.240	1370.281				14
15							1370.228	1370.246	1370.281				15
16					1370.176	1370.269	1370.254						16
17					1370.185	1370.269	1370.261		1370.306				17
18						1370.272							18
19								1370.260					19
20								1370.258					20
21						1370.300							21
22					1370.216					1370.264			22
23						1370.302	1370.281						23
24					1370.228	1370.304							24
25					1370.276		1370.279	1370.304	1370.284	1370.252			25
26						1370.311	1370.290	1370.299	1370.286				26
27									1370.284				27
28					1370.223	1370.333		1370.303					28
29					1370.219	1370.333		1370.291					29
30					1370.243	1370.335	1370.281						30
31					1370.276		1370.286						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1370.366 METRES ON JUL 6

MINIMUM OBSERVED DAILY WATER LEVEL, 1370.016 METRES ON FEB 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1370.474 METRES ON JUN 29/84
MIN. OBSERVED WATER LEVEL, 1369.560 METRES ON JAN 05/76

LAKE - STATION DESCRIPTION

STATION NAME: GOODFARE LAKE NEAR GOODFARE

STATION NUMBER: 07GD901

LOCATION: 72-11-W6 - From hamlet of Goodfare, 1.6 km East, 1.6 km North to lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1972, 1976 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake. A corrugated metal weir with a F.S.L. of 770.69 m was constructed in 1979.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Goodfare Lake near Goodfare

Station No. 07GD901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15										770.816			15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23	770.733I												23
24					770.927*								24
25													25
26													26
27													27
28													28
29													29
30							770.938*						30
31													31
TOT	770.733				770.927		770.938			770.816			TOT
MEAN	770.733x				770.927x		770.938x			770.816x			MEAN
MAX	770.733				770.927		770.938			770.816			MAX
MIN	770.733				770.927		770.938			770.816			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 770.938 Metres on JUL 30
Minimum Observed Daily Water Level: 770.733 Metres on JAN 23

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 771.034 Metres on 1976.08.26
Minimum Observed Daily Water Level: 770.138 Metres on 1979.01.10

Location: LSD NW Sec. 30 Tp. 072 Rge. 11 W6
Latitude: 55 16'   Longitude: 119 43'

From Hamlet of Goodfare, 1.6 km E, 1.6 km N to lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1972-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure built 1979 (FSL = 770.69 m).

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: GOODFISH LAKE NEAR VILNA

STATION NUMBER: 06AA907

LOCATION: 61-13-W4 - On South side of lake, 4.8 km West and 13.6 km North of Spedden.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1988. Add 0.268 m to published data prior to 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

GOODFISH LAKE NEAR VILNA

STATION NO. 06AA907

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		579.812											1
2								579.740					2
3													3
4										579.575			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					579.862								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 579.862 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 579.575 METRES ON OCT 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 581.180 METRES ON JUN 13/74
MIN. OBSERVED WATER LEVEL, 579.575 METRES ON OCT 04/90

LAKE - STATION DESCRIPTION

STATION NAME: GOOSE LAKE NEAR FORT ASSINIBOINE

STATION NUMBER: 07AH903

LOCATION: 61-08-W5 - South side of Goose Lake, 23.3 km West and 2.4 km South of Fort Assiniboine.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is an Alberta Environment Control Structure on this lake. (sheet-piling weir).
Geodetic elevation verified in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

GOOSE LAKE NEAR FORT ASSINIBOINE

STATION NO. 07AH903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										724.423			1
2													2
3							724.525		724.439				3
4						724.334							4
5													5
6								724.398					6
7													7
8										724.428			8
9					724.482		724.549						9
10							724.556		724.441				10
11						724.297				724.429			11
12													12
13								724.385					13
14					724.448								14
15													15
16							724.498						16
17									724.458				17
18	724.454												18
19													19
20						724.540		724.392					20
21					724.407								21
22													22
23							724.463						23
24													24
25						724.507							25
26													26
27								724.400					27
28													28
29					724.363								29
30							724.418						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 724.556 METRES ON JUL 10

MINIMUM OBSERVED DAILY WATER LEVEL, 724.297 METRES ON JUN 11
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 725.021 METRES ON MAY 16/74
MIN. OBSERVED WATER LEVEL, 723.863 METRES ON JUN 05/68

LAKE - STATION DESCRIPTION

STATION NAME: GOOSEBERRY LAKE NEAR CONSORT

STATION NUMBER: 05GA904

LOCATION: 36-06-W4 - 12.9 km North of Consort.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1955-1966; 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Water Survey of Canada operated station 05GA005 in 1955-1968. Geodetic elevation verified in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

GOOSEBERRY LAKE NEAR CONSORT

STATION NO. 05GA904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						694.691		694.616	694.523				1
2								694.614	694.523				2
3								694.614	694.523				3
4								694.614					4
5						694.680		694.614					5
6								694.614					6
7							694.647	694.614	694.513				7
8					694.751		694.669	694.592	694.513				8
9						694.684		694.590	694.503				9
10								694.582	694.503				10
11							694.679	694.580					11
12							694.673	694.574	694.498				12
13							694.663	694.566	694.493				13
14								694.562	694.483				14
15					694.733		694.649	694.560	694.483				15
16							694.645	694.554	694.443				16
17								694.566	694.443				17
18							694.641	694.544	694.442				18
19						694.694	694.642	694.544					19
20							694.639	694.544					20
21							694.635	694.544					21
22					694.723		694.635	694.544					22
23							694.635	694.532		694.395			23
24							694.635	694.530					24
25					694.743		694.623	694.529					25
26							694.633	694.535					26
27						694.632	694.623	694.533					27
28					694.714		694.623	694.533					28
29							694.623	694.531					29
30	694.563												30
31								694.529					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 694.751 METRES ON MAY 8

MINIMUM OBSERVED DAILY WATER LEVEL, 694.395 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 697.434 METRES ON JUL 12/56
MIN. OBSERVED WATER LEVEL, 694.395 METRES ON OCT 23/90

LAKE - STATION DESCRIPTION

STATION NAME: GOSLING LAKE NEAR BUCK LAKE

STATION NUMBER: 05CC903

LOCATION: 44-06-W5 - 12 km South on Highway #22 from Highway #13, and 11 km Southeast on gravel road to control structure.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1970 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake.
A sheet pile weir was constructed in 1971.
(F.S.L. = 1004.16 m)
Geodetic Elevation verified 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

GOSLING LAKE NEAR BUCK LAKE

STATION NO. 05CC903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6							1004.303						6
7		1004.095											7
8													8
9													9
10													10
11					1004.165								11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27							1004.106						27
28													28
29										1004.009			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1004.303 METRES ON JUL 6

MINIMUM OBSERVED DAILY WATER LEVEL, 1004.009 METRES ON OCT 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1004.956 METRES ON OCT 23/86
MIN. OBSERVED WATER LEVEL, 1004.003 METRES ON MAR 18/76

LAKE - STATION DESCRIPTION

STATION NAME: GRANDE CACHE LAKE NEAR GRANDE CACHE

STATION NUMBER: 07GA901

LOCATION: 57-08-W6 - From Grande Cache, 4.8 km Northeast on Highway #40.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1970 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There are Town of Grande Cache control structures on this lake, one of which also controls Victor Lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Grande Cache Lake near Grande Cache

DAILY WATER LEVEL IN METRES FOR 1990

Station No. 07GA901

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1										1117.438*			1
2						1117.718							2
3	1117.582*												3
4													4
5													5
6						1117.701							6
7						1117.688							7
8					1117.565*								8
9						1117.689	1117.697*						9
10						1117.687		1117.511					10
11													11
12							1117.672	1117.502					12
13							1117.669						13
14						1117.769	1117.660						14
15						1117.776	1117.650						15
16								1117.496					16
17								1117.516					17
18								1117.514					18
19							1117.632						19
20							1117.630						20
21													21
22						1117.702							22
23							1117.400						23
24						1117.686		1117.487					24
25					1117.653								25
26						1117.667							26
27					1117.643		1116.999						27
28													28
29					1117.653								29
30						1117.652							30
31							1117.573*						31
TOT	1117.582				4470.514	12294.735	11175.582	6705.026		1117.438			TOT
MEAN	1117.582x				1117.629x	1117.703x	1117.558x	1117.504x		1117.438x			MEAN
MAX	1117.582				1117.653	1117.776	1117.697	1117.516		1117.438			MAX
MIN	1117.582				1117.565	1117.652	1116.999	1117.487		1117.438			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1117.776 Metres on JUN 15
Minimum Observed Daily Water Level:1116.999 Metres on JUL 27

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1117.809 Metres on 1980.05.21
Minimum Observed Daily Water Level:1116.437 Metres on 1970.10.01

Location: LSD SE Sec. 12 Tp. 057 Rge. 08 W6
Latitude: 55 55' Longitude: 119 02'

From Grande Cache, 4.8 km NE on Hwy. #49 to Grande Cache Lake recreation area.

Gauge Type: Outside Staff Gauge.
Period of Record: 1970-1990
Hydrographic Survey Map Available? YES
Expanded to staff gauge 1981. A control structure is situated above Grande Cache Lake (below Victor Lake) and another below Grande Cache Lake. Both operated by Town of

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: GRAVEYARD LAKE NEAR HINTON

STATION NUMBER: 07AC902

LOCATION: 52-26-W5 - On outlet of Graveyard Lake. West of Graveyard/Cache Lake parking lot at Graveyard campground off Highway #40 in William A. Switzer Provincial Park.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: 1971-87 water levels do not reflect actual lake levels due to beaver activity. Data 1988 to present is actual lake water level.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Graveyard Lake near Hinton

Station No. 07AC902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						1149.147				1148.986*			1
2						1149.149							2
3													3
4	1148.994*					1149.103							4
5													5
6							1149.457E						6
7													7
8					1148.990*		1149.259						8
9						1149.064	1149.209						9
10						1149.052	1149.159*	1148.709	1148.707				10
11					1149.006	1149.058							11
12					1149.014		1149.093						12
13													13
14													14
15						1149.159	1149.029						15
16						1149.159	1149.013						16
17													17
18					1148.985								18
19													19
20					1149.017								20
21					1149.041		1148.965						21
22													22
23													23
24						1149.050							24
25					1149.052			1148.793	1148.793				25
26						1149.120							26
27					1149.058								27
28						1149.035							28
29							1148.945						29
30									1148.863				30
31							1148.959	1148.863					31
TOT	1148.994				9192.163	12640.096	11491.088	3446.365	3446.363	1148.986			TOT
MEAN	1148.994x				1149.020x	1149.100x	1149.109x	1148.788x	1148.788x	1148.986x			MEAN
MAX	1148.994				1149.058	1149.159	1149.457	1148.863	1148.863	1148.986			MAX
MIN	1148.994				1148.985	1149.035	1148.945	1148.709	1148.707	1148.986			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level:1149.457 Metres on JUL 6
Minimum Observed Daily Water Level:1148.707 Metres on SEP 10

HISTORICAL SUMMARY
Maximum Observed Daily Water Level:1149.457 Metres on 1990.07.06
Minimum Observed Daily Water Level:1148.372 Metres on 1988.05.17

Location: LSD NW Sec. 17 Tp. 052 Rge. 26 W5
Latitude: 53 30' Longitude: 117 48'

From Hwy #16, ~24 km N on Hwy #40, E to Beaver Ranch Campground, S to Graveyard Lake Campground.

Gauge Type: Outside Staff Gauge.
Period of Record: 1971-1990
Hydrographic Survey Map Available? YES
1971-87 water levels did not reflect actual lake levels due to beaver activity. Data from 1988 to present is actual water level. Previously called Cache Lake on incorrect sign

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	GREGG LAKE NEAR HINTON
STATION NUMBER:	07AC903
LOCATION:	53-26-W5 - From Highway #16, 28 km North on Highway #40, 0.8 km Northeast to boat launch.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Hydrographic Survey 1971.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Gregg Lake near Hinton

Station No. 07AC903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						1138.705				1138.465*			1
2													2
3	1138.348*					1138.691							3
4						1138.671		1138.583					4
5													5
6							1139.007E						6
7													7
8					1138.396*	1138.621							8
9							1138.903*						9
10													10
11					1138.421	1138.620							11
12					1138.430								12
13													13
14													14
15						1138.759	1138.686						15
16						1138.760	1138.684						16
17													17
18					1138.486								18
19													19
20					1138.494								20
21													21
22							1138.598						22
23													23
24						1138.616		1138.453					24
25					1138.552	1138.617							25
26													26
27					1138.555								27
28						1138.587							28
29													29
30							1138.571						30
31							1138.643						31
TOT	1138.348				7969.334	11386.647	7971.092	2277.036		1138.465			TOT
MEAN	1138.348x				1138.476x	1138.665x	1138.727x	1138.518x		1138.465x			MEAN
MAX	1138.348				1138.555	1138.760	1139.007	1138.583		1138.465			MAX
MIN	1138.348				1138.396	1138.587	1138.571	1138.453		1138.465			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1139.007 Metres on JUL 6
Minimum Observed Daily Water Level:1138.348 Metres on JAN 3

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1139.788 Metres on 1980.09.19
Minimum Observed Daily Water Level:1138.202 Metres on 1981.07.08

Location: LSD SW Sec. 05 Tp. 053 Rge. 26 W5
Latitude: 53 33' Longitude: 117 51'

From Hwy #16, ~28 km N on Hwy #40 to N end of Wm. A. Switzer Park, 0.8 km NE to boat launch.

Gauge Type: Outside Staff Gauge.
Period of Record: 1968-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1971.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	GULL LAKE NEAR FORT VERMILION
STATION NUMBER:	07HF902
LOCATION:	NE 4-109-13-W5 - From Fort Vermilion, approximately 13 km West and North on Highway #67, 3.2 km East, 0.5 km South to trail leading west to structure.
GAUGE TYPE:	Staff Gauge
PERIOD OF RECORD:	1987-1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	There is a Ducks Unlimited control structure on this lake constructed in 1988. Station moved 1.5 km East to structure in 1989. Expanded to Staff Gauge 1989.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Gull Lake near Port Vermilion

Station No. 07HF902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						97.817	97.691	97.945	97.533				1
2						97.808	97.691	97.945	97.542				2
3						97.801	97.686	97.944	97.542				3
4						97.797	97.687	97.943	97.542				4
5						97.795	97.681	97.941	97.532				5
6						97.792	97.679	97.939	97.532				6
7						97.782	97.673	97.936	97.533				7
8						97.782	97.659	97.933	97.532				8
9						97.781	97.655	97.929	97.523				9
10	97.685*					97.779	97.659	97.924	97.523				10
11						97.772	97.659	97.921	97.492				11
12						97.780	97.649	97.919	97.542				12
13						97.776	97.694	97.916	97.543				13
14						97.775	97.675	97.912	97.532				14
15						97.765	97.648	97.912	97.523				15
16					98.045*	97.767	97.635	97.911	97.534				16
17					98.033	97.759	97.638	97.909	97.535				17
18					98.034	97.757	97.637*	97.908	97.503				18
19					98.031	97.756	97.633	97.906	97.523				19
20					98.017	97.745	97.631	97.904	97.513				20
21					98.008	97.737	97.627	97.901	97.513				21
22					98.008	97.730	97.621	97.898	97.511				22
23					98.005	97.731	97.615	97.896	97.507				23
24					98.002	97.728	97.615	97.895	97.513				24
25					97.950	97.717	97.610	97.896	97.543				25
26					97.914	97.711	97.606	97.897	97.500*				26
27					97.811	97.711	97.620	97.897					27
28					97.857	97.702	97.610	97.896					28
29					97.836	97.711	97.603	97.894					29
30					97.826	97.691	97.601	97.893					30
31					97.816		97.586	97.893					31
TOT	97.685				1567.193	2932.755	3026.974	3035.353	2535.661				TOT
MEAN	97.685x				97.950x	97.758	97.644	97.915	97.525x				MEAN
MAX	97.685				98.045	97.817	97.694	97.945	97.543				MAX
MIN	97.685				97.811	97.691	97.586	97.893	97.492				MIN

WATER LEVELS ARE REFERRED TO:
ASSUMED DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 98.045 Metres on MAY 16
Minimum Observed Daily Water Level: 97.492 Metres on SEP 11

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 98.062 Metres on 1989.06.03
Minimum Observed Daily Water Level: 97.484 Metres on 1988.09.28

Location: LSD NE Sec. 04 Tp. 109 Rge. 13 W5
Latitude: 56 26' Longitude: 116 08'

From Hwy #58, 8.0 km S on Hwy #67, 3.2 km E, 0.5 km S to trail leading W to structure.

Gauge Type: Outside Staff Gauge.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited structure constructed in 1988. Station moved 1.5 km east to structure in 1989. Expanded to staff gauge in 1989.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	HANMORE LAKE NEAR SMOKY LAKE
STATION NUMBER:	05EC901
LOCATION:	61-17-W4 - The Southeast corner of Hanmore Lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

HANMORE LAKE NEAR SMOKY LAKE

STATION NO. 05EC901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		668.942											1
2								668.951					2
3													3
4										668.845			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18					669.047								18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 669.047 METRES ON MAY 18

MINIMUM OBSERVED DAILY WATER LEVEL, 668.845 METRES ON OCT 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 670.078 METRES ON JUN 06/74
MIN. OBSERVED WATER LEVEL, 668.845 METRES ON OCT 04/90

LAKE - STATION DESCRIPTION

STATION NAME: HASSE LAKE NEAR STONY PLAIN

STATION NUMBER: 05EA908

LOCATION: 52-02-W5 - Approximately 3.2 km West and 2 km South of Edmonton Beach.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Benchmark check conducted. Geodetic elevation verified in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

HASSE LAKE NEAR STONY PLAIN

STATION NO. 05EA908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					728.351								11
12							728.442						12
13													13
14													14
15													15
16	728.232												16
17													17
18										728.279			18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 728.442 METRES ON JUL 12

MINIMUM OBSERVED DAILY WATER LEVEL, 728.232 METRES ON JAN 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 728.730 METRES ON JUL 15/83
MIN. OBSERVED WATER LEVEL, 727.108 METRES ON OCT 05/70

LAKE - STATION DESCRIPTION

STATION NAME:	HAY LAKE NEAR FAIRVIEW	
STATION NUMBER:	07FD919	
LOCATION:	83-4-W6 -	From Fairview, 6.4 km West on Secondary #682, 11.2 km North on Highway #64, 1.5 km Southwest on trail to lake.
GAUGE TYPE:	None. Level established by surveying.	
PERIOD OF RECORD:	1981 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure (Sunrise Project) on this lake constructed in 1979 and rebuilt 1987.
Also Earth Nesting islands added to lake.
Lake dry in October 1986.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Hay Lake near Fairview

Station No. 07FD919

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2					648.479			648.259					2
3													3
4													4
5													5
6													6
7													7
8	648.381*												8
9													9
10													10
11				648.609									11
12													12
13							648.349			648.119			13
14					648.455*								14
15									648.139				15
16					648.459		648.340*						16
17													17
18													18
19													19
20													20
21													21
22													22
23					648.429								23
24							648.319		648.153*	648.129			24
25						648.369							25
26													26
27					648.439								27
28													28
29													29
30													30
31													31
TOT	648.381			648.609	3242.261	648.369	1945.008	648.259	1296.292	1296.248			TOT
MEAN	648.381x			648.609x	648.452x	648.369x	648.336x	648.259x	648.146x	648.124x			MEAN
MAX	648.381			648.609	648.479	648.369	648.349	648.259	648.153	648.129			MAX
MIN	648.381			648.609	648.429	648.369	648.319	648.259	648.139	648.119			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 648.609 Metres on APR 11
Minimum Observed Daily Water Level: 648.119 Metres on OCT 13

Location: LSD SE Sec. 02 Tp. 083 Rge. 04 W6
Latitude: 56 10' Longitude: 118 33'

From Hines Creek intersection, 9.6 km SE on Hwy. #64, S 1 km to corral, W 0.5 km, S to lake.

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 648.609 Metres on 1989.04.20
Minimum Observed Daily Water Level: 647.873 Metres on 1982.02.17
Last Observed Dry on 1987.02.04 Observed Dry 2 x
Gauge Type: None. Level Established by Surveying.
Period of Record: 1981-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure (Sunrise Project) constructed in 1979, rebuilt in 1987. Monitored by Ducks Unlimited from TBM 89-1. Lake dry elevation = ~ 647.780 m on

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	HELEN LAKE NEAR DIXONVILLE
STATION NUMBER:	07HA906
LOCATION:	87-24-W5 - From Highway #35, 8.7 km West on Sec #689, 1.6 km North, 1.6 km West, South to lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1980 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Helen Lake near Dixonville

Station No. 07HA906

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9	633.204*												9
10													10
11													11
12													12
13													13
14													14
15					633.461*								15
16													16
17							633.423*						17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25									633.202*				25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	633.204				633.461		633.423		633.202				TOT
MEAN	633.204x				633.461x		633.423x		633.202x				MEAN
MAX	633.204				633.461		633.423		633.202				MAX
MIN	633.204				633.461		633.423		633.202				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 633.461 Metres on MAY 15
Minimum Observed Daily Water Level: 633.202 Metres on SEP 25

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 633.710 Metres on 1984.07.18
Minimum Observed Daily Water Level: 633.202 Metres on 1990.09.25

Location: LSD NW Sec. 18 Tp. 087 Rge. 24 W5
Latitude: 56 33'   Longitude: 117 50'

From Hwy. #35, 8.7 km W on Sec #689, 1.6 km N, 1.6 km W, 0.5 km S on trail to lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1980-1990
Hydrographic Survey Map Available? NO

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: HERMIT LAKE NEAR GRANDE PRAIRIE

STATION NUMBER: 07GE909

LOCATION: 72-07-W6 - From Grande Prairie City Centre, 8 km West on Highway #2, 4.8 km North, 1.6 km West, South to lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1975 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake constructed in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Hermit Lake near Grande Prairie

Station No. 07GE909

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						659.955	660.181	660.073	659.979	659.909			1
2						659.954	660.183	660.065	659.977	659.909			2
3						659.952	660.191	660.061	659.973	659.907			3
4						659.954	660.189	660.057	659.967	659.909			4
5						659.950	660.185	660.054	659.961	659.907			5
6						659.944	660.181	660.046	659.961	659.909			6
7						659.942	660.174	660.034	659.959	659.909			7
8						659.937	660.172	660.030	659.958	659.911			8
9						659.933	660.170	660.024	659.956	659.911			9
10						659.933	660.172	660.018	659.952	659.925			10
11						659.995	660.166	660.014	659.948	659.927			11
12						660.191	660.162	660.010	659.946	659.928			12
13						660.254	660.153	660.008	659.942	659.926			13
14						660.264	660.143	660.006	659.940	659.922			14
15						660.266	660.137	660.004	659.938	659.918			15
16						660.266	660.133	660.012	659.952	659.914			16
17						660.256	660.143	660.010	659.948	659.914			17
18						660.252	660.141	660.002	659.944	659.914			18
19						660.247	660.136	659.994	659.942	659.917*			19
20						660.243	660.132	659.986	659.942				20
21						660.227	660.128	659.976	659.940				21
22						660.223	660.124	659.973	659.938				22
23					659.941*	660.217	660.120	659.969	659.936				23
24	659.708				659.944	660.209	660.114	659.967	659.932				24
25					659.958	660.204	660.111	659.965	659.929				25
26						660.200	660.105	659.961	659.913				26
27						660.194	660.106*	659.959	659.911				27
28					659.935	660.190	660.093	659.955	659.909				28
29					659.937	660.186	660.085	659.951	659.909				29
30					659.961	660.182	660.081	659.985	659.907				30
31					659.955		660.077	659.983					31
TOT	659.708				4619.631	19803.720	20464.388	20460.152	19798.309	12538.386			TOT
MEAN	659.708x				659.947x	660.124	660.142	660.005	659.944	659.915x			MEAN
MAX	659.708				659.961	660.266	660.191	660.073	659.979	659.928			MAX
MIN	659.708				659.935	659.933	660.077	659.951	659.907	659.907			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 660.266 Metres on JUN 15
Minimum Observed Daily Water Level: 659.708 Metres on JAN 24

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 660.467 Metres on 1982.08.04
Minimum Observed Daily Water Level: 659.423 Metres on 1989.08.01

Location: LSD SE Sec. 02 Tp. 072 Rge. 07 W6
Latitude: 55 12'   Longitude: 118 56'

From Grande Prairie city centre, 8 km W on Hwy #2, 4.8 km N, 1.6 km W, 0.6 km S to farm.

Gauge Type: Outside Staff Gauge.
Period of Record: 1975-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure built 1984.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	HILLTOP LAKE NEAR LA GLACE
STATION NUMBER:	07FD927
LOCATION:	29-75-07-W6 From La Glace, 4.8 km East, 6.4 km North, 1.0 km East, 7.0 km North to recreation area.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1989 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Hilltop Lake near La Glace

Station No. 07FD927

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12							98.369*						12
13													13
14													14
15													15
16										98.185*			16
17													17
18													18
19													19
20													20
21													21
22	98.137*												22
23					98.185*								23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	98.137				98.185		98.369			98.185			TOT
MEAN	98.137x				98.185x		98.369x			98.185x			MEAN
MAX	98.137				98.185		98.369			98.185			MAX
MIN	98.137				98.185		98.369			98.185			MIN

WATER LEVELS ARE REFERRED TO:
ASSUMED DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 98.369 Metres on JUL 12
Minimum Observed Daily Water Level: 98.137 Metres on JAN 22

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 98.369 Metres on 1990.07.12
Minimum Observed Daily Water Level: 97.968 Metres on 1989.06.27

Location: LSD SE Sec. 29 Tp. 075 Rge. 07 W6
Latitude: 51 31' Longitude: 119 02'

From La Glace, 4.8 km E, 6.4 km N, 1 km E, 7 km N to recreation area.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1989-1990
Hydrographic Survey Map Available? NO

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: HUBBLES LAKE NEAR STONY PLAIN

STATION NUMBER: 05EA915

LOCATION: 53-01-W5 - East end of Hubbles Lake, 4.8 km West and 4 km North of Stony Plain.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1984. Subtract 0.086 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

HUBBLES LAKE NEAR STONY PLAIN

STATION NO. 05EA915

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					728.826								11
12							728.883			728.730			12
13													13
14													14
15													15
16	728.739												16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 728.883 METRES ON JUL 12

MINIMUM OBSERVED DAILY WATER LEVEL, 728.730 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 729.009 METRES ON MAY 10/81
MIN. OBSERVED WATER LEVEL, 727.770 METRES ON MAY 18/71

LAKE - STATION DESCRIPTION

STATION NAME:	HUGHES LAKE NEAR GRANDE PRAIRIE
STATION NUMBER:	07GE910
LOCATION:	71-06-W6 - From Grande Prairie city centre 8 km West on Highway #2, 2.3 km North, 0.7 km East.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1975 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Hughes Lake near Grande Praïrie

Station No. 07GB910

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					661.146*								9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19										660.944*			19
20													20
21													21
22													22
23							661.131*						23
24	661.062I												24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	661.062				661.146		661.131			660.944			TOT
MEAN	661.062x				661.146x		661.131x			660.944x			MEAN
MAX	661.062				661.146		661.131			660.944			MAX
MIN	661.062				661.146		661.131			660.944			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 661.146 Metres on MAY 9
Minimum Observed Daily Water Level: 660.944 Metres on OCT 19

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 662.462 Metres on 1977.05.10
Minimum Observed Daily Water Level: 660.870 Metres on 1989.07.31

Location: LSD NW Sec. 31 Tp. 071 Rge. 06 W6
Latitude: 55 12' Longitude: 118 54'

From Grande Prairie city centre, 8.0 km W on Hwy #2, 2.3 km N, 0.7 km E.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1975-1990
Hydrographic Survey Map Available? NO

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: HUTCH LAKE NEAR HIGH LEVEL

STATION NUMBER: 07OB901

LOCATION: 29-112-20-W5 - From High Level, approximately 30 km North on Highway #35 to Day Use Area.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Hutch Lake near High Level

Station No. 070B901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						321.746	321.864	321.833					1
2						321.756	321.864						2
3						321.756		321.833	321.816				3
4						321.766	321.859	321.838					4
5						321.776							5
6						321.776		321.838					6
7						321.791			321.811				7
8						321.796							8
9	320.706*					321.811							9
10						321.816	321.844	321.828	321.808				10
11						321.831		321.833					11
12						321.841		321.833					12
13						321.841	321.844	321.832					13
14						321.846	321.844		321.804				14
15					321.463*	321.856		321.832					15
16					321.461	321.866		321.822					16
17					321.495	321.866	321.835*						17
18					321.516	321.866							18
19					321.546			321.817					19
20					321.556	321.866*	321.849		321.800				20
21					321.571	321.864	321.839						21
22					321.596	321.864							22
23					321.596	321.864	321.834						23
24					321.611	321.864	321.834						24
25							321.834	321.820	321.778*				25
26					321.661								26
27					321.671	321.864	321.833	321.822					27
28					321.681	321.862	321.833						28
29					321.705	321.864							29
30					321.711	321.864							30
31					321.725			321.816					31
TOT	320.706				5145.565	8689.379	4505.810	4505.597	1930.817				TOT
MEAN	320.706x				321.598x	321.829x	321.844x	321.828x	321.803x				MEAN
MAX	320.706				321.725	321.866	321.864	321.838	321.816				MAX
MIN	320.706				321.461	321.746	321.833	321.816	321.778				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 321.866 Metres on JUN 16
Minimum Observed Daily Water Level: 320.706 Metres on JAN 9

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 322.242 Metres on 1989.05.31
Minimum Observed Daily Water Level: 319.874 Metres on 1988.01.26

Location: LSD NE Sec. 29 Tp. 112 Rge. 20 W5
Latitude: 58 45' Longitude: 117 21'

Gauge Type: Outside Staff Gauge.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO

From High Level, 30 km N on Hwy #35 to Day Use Area on NE side of lake, SW to cairn on loop road.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: IOSEGUN LAKE NEAR FOX CREEK

STATION NUMBER: 07GG901

LOCATION: 63-19-W5 - From Fox Creek Junction, 9.4 km North, West to boat launch at Forestry campground.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1975 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation established April 1980. An Alberta Environment control structure constructed 1984. Hydrographic Survey 1967.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Iosegun Lake near Fox Creek

Station No. 07GG901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						774.145	774.318						1
2						774.154							2
3						774.147				774.128*			3
4								774.322					4
5	773.922							774.324					5
6							774.467		774.100				6
7							774.507						7
8						774.219	774.521						8
9						774.219							9
10					774.083*	774.224							10
11					774.069		774.523*	774.292	774.130				11
12					774.077			774.287	774.130				12
13								774.287	774.120				13
14									774.120				14
15					774.073								15
16					774.075								16
17					774.073			774.266	774.130				17
18								774.268	774.120				18
19								774.252					19
20					774.068		774.476						20
21					774.060		774.460		774.120				21
22					774.050	774.476	774.460						22
23						774.448	774.462						23
24					774.069	774.424							24
25						774.412							25
26					774.078								26
27					774.105		774.404						27
28							774.387						28
29						774.333	774.388						29
30						774.325	774.372						30
31													31
TOT	773.922				9288.880	9291.526	10067.745	6194.298	6192.970	774.128			TOT
MEAN	773.922x				774.073x	774.294x	774.442x	774.287x	774.121x	774.128x			MEAN
MAX	773.922				774.105	774.476	774.523	774.324	774.130	774.128			MAX
MIN	773.922				774.050	774.145	774.318	774.252	774.100	774.128			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
- Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 774.523 Metres on JUL 11
Minimum Observed Daily Water Level: 773.922 Metres on JAN 5

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 774.653 Metres on 1089.07.13
Minimum Observed Daily Water Level: 773.173 Metres on 1981.10.22

Location: LSD SE Sec. 20 Tp. 063 Rge. 19 W5
Latitude: 54 26'   Longitude: 116 47'

From intersection at Fox Creek, 9.4 km N, then W and S to boat launch area (see BM diagram).

Gauge Type: Outside Staff Gauge.
Period of Record: 1975-1990
Hydrographic Survey Map Available? YES
Geodetic Elevation established in 1980. An Alberta Environment control structure constructed 1984.
Hydrographic Survey 1967.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	IRONWOOD LAKE NEAR LAC LA BICHE
STATION NUMBER:	06AA908
LOCATION:	65-11-W4 - At Highway campsite.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1984. Add 7.316 m to published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

IRONWOOD LAKE NEAR LAC LA BICHE

STATION NO. 06AA908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2										585.793			2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16					585.978								16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30	585.921												30
31							585.915						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 585.978 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 585.793 METRES ON OCT 2
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 587.033 METRES ON JUN 12/79
MIN. OBSERVED WATER LEVEL, 585.793 METRES ON OCT 02/90

LAKE - STATION DESCRIPTION

STATION NAME:	ISLAND LAKE NEAR ATHABASCA
STATION NUMBER:	07BE904
LOCATION:	67-24-W4 - On Highway #2 to Smith by Island Lake store.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1968 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Geodetic elevation revised in 1984. Add 0.055 m to published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

ISLAND LAKE NEAR ATHABASCA

STATION NO. 07BE904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1					601.371	601.382	601.358	601.333	601.265	601.200			1
2					601.371	601.379	601.361	601.331	601.263	601.196			2
3					601.371	601.374	601.418	601.321	601.263	601.194			3
4					601.373	601.371	601.416	601.319	601.261	601.192			4
5					601.373	601.374	601.417	601.315	601.257	601.188			5
6					601.371	601.374	601.414	601.311	601.253	601.188			6
7					601.373	601.375	601.419	601.307	601.251	601.188			7
8					601.379	601.376	601.418	601.299	601.251	601.186			8
9					601.382	601.377	601.414	601.293	601.249	601.186			9
10					601.381	601.379	601.412	601.291	601.249	601.184			10
11					601.380	601.386	601.410	601.287	601.247	601.186			11
12					601.379	601.385	601.408	601.283	601.245	601.184			12
13					601.375	601.384	601.400	601.281	601.239	601.184			13
14					601.376	601.383	601.392	601.273	601.235	601.184			14
15					601.377	601.381	601.388	601.275	601.233	601.182			15
16					601.378	601.382	601.386	601.279	601.235	601.182			16
17	601.373				601.377	601.377	601.382	601.287	601.234	601.182			17
18					601.379	601.376	601.380	601.293	601.234	601.182			18
19					601.382	601.375	601.378	601.291	601.234	601.180			19
20					601.383	601.373	601.376	601.289	601.232	601.178			20
21					601.382	601.372	601.376	601.285	601.230	601.176			21
22					601.380	601.369	601.374	601.281	601.226	601.174			22
23				601.369	601.381	601.368	601.370	601.277	601.224	601.174			23
24				601.369	601.392	601.363	601.366	601.281	601.222	601.174			24
25				601.369	601.395	601.359	601.362	601.281	601.220	601.172			25
26				601.371	601.392	601.358	601.356	601.275	601.214	601.172			26
27				601.371	601.388	601.363	601.352	601.271	601.212	601.172			27
28				601.371	601.387	601.362	601.346	601.267	601.208	601.174			28
29				601.373	601.386	601.360	601.342	601.263	601.206	601.174			29
30				601.373	601.385	601.359	601.340	601.263	601.204	601.174			30
31					601.382		601.338	601.265		601.174			31
TOTAL					18642.781	18041.196	18642.869	18639.967	18037.096	18636.636			TOTAL
MEAN					601.380	601.373	601.383	601.289	601.237	601.182			MEAN
MAX					601.395	601.386	601.419	601.333	601.265	601.200			MAX
MIN					601.371	601.358	601.338	601.263	601.204	601.172			MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 601.419 METRES ON JUL 7

MINIMUM OBSERVED DAILY WATER LEVEL, 601.172 METRES ON OCT 25
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 601.755 METRES ON MAY 23/74
MIN. OBSERVED WATER LEVEL, 600.968 METRES ON NOV 29/68

LAKE - STATION DESCRIPTION

STATION NAME:	JACKFISH LAKE NEAR ROCKY MOUNTAIN HOUSE
STATION NUMBER:	05DC906
LOCATION:	41-11-W5 - East side of Jackfish Lake, 44.3 km West by Northwest of Rocky Mountain House.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic elevation revised in 1987. Add 0.189 m to published data prior to 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

JACKFISH LAKE NEAR ROCKY MOUNTAIN HOUSE

STATION NO. 05DC906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		1141.361											1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					1141.530								10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25										1141.796			25
26							1141.843						26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1141.843 METRES ON JUL 26

MINIMUM OBSERVED DAILY WATER LEVEL, 1141.361 METRES ON FEB 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1142.405 METRES ON OCT 20/82
MIN. OBSERVED WATER LEVEL, 1140.869 METRES ON AUG 14/73

LAKE - STATION DESCRIPTION

STATION NAME:	JACKFISH LAKE NEAR STONY PLAIN
STATION NUMBER:	05DE902
LOCATION:	52-02-W5 - East side of Jackfish Lake, 14.5 km West and 4.8 km South of Stony Plain.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1968 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Geodetic Elevation verified in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

JACKFISH LAKE NEAR STONY PLAIN

STATION NO. 05DE902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					729.905								11
12							729.956						12
13													13
14													14
15													15
16	729.741												16
17							729.924						17
18										729.745			18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 729.956 METRES ON JUL 12

MINIMUM OBSERVED DAILY WATER LEVEL, 729.741 METRES ON JAN 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 730.179 METRES ON JUL 25/83
MIN. OBSERVED WATER LEVEL, 728.617 METRES ON OCT 05/70

LAKE - STATION DESCRIPTION

STATION NAME:	JARVIS LAKE NEAR HINTON
STATION NUMBER:	07AC904
LOCATION:	51-26-W5 - From Hinton, 17.6 km Northwest on Highway #40 to Southwest side of Jarvis Lake in W.A. Switzer Provincial Park.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1968 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Hydrographic Survey 1968.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Jarvis Lake near Hinton

Station No. 07AC904

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1										1151.196*			1
2													2
3						1151.380							3
4	1151.146*												4
5								1151.066					5
6													6
7													7
8													8
9					1151.156*		1151.547						9
10						1151.265	1151.471*						10
11					1151.165								11
12					1151.178								12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22						1151.278							22
23													23
24								1151.202					24
25					1151.285								25
26													26
27													27
28							1151.186						28
29													29
30													30
31													31
TOT	1151.146				4604.784	3453.923	3454.204	2302.268		1151.196			TOT
MEAN	1151.146x				1151.196x	1151.308x	1151.401x	1151.134x		1151.196x			MEAN
MAX	1151.146				1151.285	1151.380	1151.547	1151.202		1151.196			MAX
MIN	1151.146				1151.156	1151.265	1151.186	1151.066		1151.196			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1151.547 Metres on JUL 9
Minimum Observed Daily Water Level:1151.066 Metres on AUG 5

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1151.733 Metres on 1980.06.05
Minimum Observed Daily Water Level:1150.650 Metres on 1978.01.25

Location: LSD NW Sec. 32 Tp. 051 Rge. 26 W5
Latitude: 53 27'   Longitude: 117 48'

From Hinton 17.6 km NW on Hwy #40 to William A. Switzer Prov. Park, NW on Jarvis Lake road to park maintenance yard, NE to lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1968-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1968.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	JESSIE LAKE NEAR BONNYVILLE
STATION NUMBER:	06AC906
LOCATION:	61-05-W4 - East side of the Lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: No Ducks Unlimited Control but water is pumped into the lake by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

JESSIE LAKE NEAR BONNYVILLE

STATION NO. 06AC906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								548.046		547.973			1
2													2
3										547.994			3
4						548.176	548.136						4
5									548.022				5
6								548.036					6
7													7
8													8
9							548.128			547.998			9
10									548.017				10
11													11
12													12
13								548.021					13
14						548.171							14
15													15
16							548.085						16
17					548.263				548.047				17
18						548.144				547.973			18
19													19
20								547.992					20
21													21
22										547.978			22
23					548.247								23
24													24
25							548.060						25
26						548.095							26
27													27
28					548.209				547.988				28
29										547.968			29
30								547.942					30
31	547.968 B												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 548.263 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 547.942 METRES ON AUG 30
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 549.317 METRES ON MAY 30/75
MIN. OBSERVED WATER LEVEL, 547.865 METRES ON AUG 14/89

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	JOHNNY'S LAKE NEAR STONY PLAIN
STATION NUMBER:	05DE903
LOCATION:	52-02-W5 - South side of Johnny's Lake, 2.1 km South and 19.6 km West of Stony Plain.
GAUGE TYPE:	Staff gauge.
PERIOD OF RECORD:	1968-1972; 1974 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Geodetic Elevation verified April 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

JOHNNY'S LAKE NEAR STONY PLAIN

STATION NO. 05DE903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1							722.021		721.983				1
2													2
3									721.985				3
4								721.991					4
5								721.983					5
6													6
7							722.110						7
8							722.120						8
9									721.969				9
10							722.112	721.958					10
11					722.167			721.957					11
12							722.100						12
13													13
14							722.074	721.940	721.962				14
15							722.072	721.941					15
16	722.130							721.941					16
17							722.073	721.969					17
18										721.931			18
19													19
20					722.074		722.061						20
21					722.069		722.057	721.963					21
22					722.070		722.058						22
23													23
24						722.026							24
25													25
26													26
27					722.068			721.958					27
28													28
29							722.019						29
30							722.014						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 722.167 METRES ON MAY 11

MINIMUM OBSERVED DAILY WATER LEVEL, 721.931 METRES ON OCT 18
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 722.408 METRES ON JUL 12/83
MIN. OBSERVED WATER LEVEL, 720.925 METRES ON NOV 01/68

LAKE - STATION DESCRIPTION

STATION NAME:	JOSEPH LAKE NEAR NEW SAREPTA
STATION NUMBER:	05EB903
LOCATION:	50-22-W4 - 0.8 km North and 4.8 km East of New Sarepta.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevations revised 1989. Subtract 0.114 from data published prior to 1989.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

JOSEPH LAKE NEAR NEW SAREPTA

STATION NO. 05EB903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7					759.331								7
8													8
9													9
10								759.288					10
11													11
12										759.158			12
13													13
14													14
15													15
16													16
17													17
18							759.385						18
19													19
20													20
21													21
22													22
23	759.187												23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 759.385 METRES ON JUL 18

MINIMUM OBSERVED DAILY WATER LEVEL, 759.158 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 759.446 METRES ON APR 30/87
MIN. OBSERVED WATER LEVEL, 758.677 METRES ON OCT 16/70

LAKE - STATION DESCRIPTION

STATION NAME:	KAKUT LAKE NEAR RYCROFT
STATION NUMBER:	07GJ905
LOCATION:	03-77-04-W6 - From Highway #2, 8 km East on Sec. #677, 4 km North, 2.3 km East, then South to lake.
GAUGE TYPE:	Metric Staff Gauge.
PERIOD OF RECORD:	1986 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure (Cadotte Lake South) on this lake constructed in 1962, reconstructed in 1977.
Geodetic elevation established in 1988.
Also monitored by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Kakut Lake near Rycroft

Station No. 07GJ905

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3							653.934						3
4							653.924	653.744					4
5						654.823*	653.919						5
6							653.894						6
7							653.889						7
8							653.884						8
9							653.870						9
10							653.860						10
11							653.848						11
12							653.796*						12
13													13
14													14
15							653.811	653.692					15
16										653.625*			16
17													17
18							653.807						18
19													19
20								653.686					20
21						654.182							21
22	653.806I				653.875*		653.799						22
23													23
24													24
25						654.043							25
26													26
27													27
28													28
29							653.764						29
30						653.948							30
31													31
TOT	653.806				653.875	2616.996	9153.999	1961.122		653.625			TOT
MEAN	653.806x				653.875x	654.249x	653.857x	653.707x		653.625x			MEAN
MAX	653.806				653.875	654.823	653.934	653.744		653.625			MAX
MIN	653.806				653.875	653.948	653.764	653.686		653.625			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 654.823 Metres on JUN 5
Minimum Observed Daily Water Level: 653.625 Metres on OCT 16

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 654.823 Metres on 1990.06.05
Minimum Observed Daily Water Level: 653.625 Metres on 1990.10.16

Location: LSD SW Sec. 03 Tp. 077 Rge. 04 W6
Latitude: 55 38' Longitude: 118 32'

From Hwy #2, 8 km E on Sec #677, 4 km N, 2.3 km E, then S to lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1986-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure (Cadotte Lake South) built in 1962; reconstructed in 1977. Geodetic Elevation established 1988. Also monitored by Ducks Unlimited at TBM

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: KEHIWIN LAKE NEAR BONNYVILLE

STATION NUMBER: 06AC907

LOCATION: 58-07-W4 - East side of Kehiwin Lake, 32.2 km South, Southwest of Bonnyville.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1967 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

KEHIWIN LAKE NEAR BONNYVILLE

STATION NO. 06AC907

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								539.924					1
2													2
3										539.767			3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16					539.995								16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31	539.618												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 539.995 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 539.618 METRES ON JAN 31
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 540.148 METRES ON AUG 19/86
MIN. OBSERVED WATER LEVEL, 539.218 METRES ON FEB 09/82

LAKE - STATION DESCRIPTION

STATION NAME: KEHO LAKE NEAR NOBLEFORD

STATION NUMBER: 05AC919

LOCATION: 11-22-W4 - 75 m West of outlet structure, 2.4 km North of E-W Road, 8.8 km East of Highway #23 and 7.2 km North of Nobleford.

GAUGE TYPE: Encoder Handar Unit.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Ducks Unlimited built one cross dyke on a bay in the lake in 1987. Another one is proposed for 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

KEHO LAKE NEAR NOBLEFORD

STATION NO. 05AC919

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5									964.217		963.205		5
6													6
7													7
8													8
9					963.715								9
10													10
11													11
12				963.490									12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22						964.080							22
23										963.215			23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 964.217 METRES ON SEP 5

MINIMUM OBSERVED DAILY WATER LEVEL, 963.205 METRES ON NOV 5
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 964.463 METRES ON JUN 01/88
MIN. OBSERVED WATER LEVEL, 961.614 METRES ON SEP 13/88

LAKE - STATION DESCRIPTION

STATION NAME:	KIMIWAN LAKE AT MCLENNAN
STATION NUMBER:	07HA907
LOCATION:	77-19-W5 - On North side of Highway #49, north-northwest of new hospital, in town of McLennan.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1978 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	There are Alberta Environment control structures on this lake. Benchmark check conducted. All data previous to 1984 may be altered due to this correction. Stilling well and recorder installed spring of 1986. Geodetic Elevation confirmed 1987 and 1989. Water level recorder in operation from May 30 - Aug 23, 1990.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Kimiwan Lake at McLennan

Station No. 07HA907

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						618.813	618.818	618.728					1
2					618.832	618.794	618.827	618.733					2
3						618.786	618.841	618.702					3
4						618.790	618.815	618.701					4
5						618.782	618.823	618.700					5
6						618.800	618.836	618.692					6
7						618.781	618.810	618.688					7
8						618.783	618.802	618.684					8
9						618.772	618.801	618.680*					9
10						618.786	618.791	618.679					10
11	618.811*					618.893	618.787	618.677					11
12						618.898	618.783	618.678					12
13						618.887	618.777	618.688					13
14						618.858	618.784	618.674					14
15						618.867	618.769	618.667					15
16						618.875	618.778	618.662					16
17						618.869	618.792	618.655					17
18						618.865	618.784	618.654		618.581*			18
19						618.866	618.775	618.650					19
20						618.863	618.768	618.646					20
21						618.854	618.765	618.649					21
22						618.849	618.754	618.670					22
23						618.855	618.770	618.674					23
24						618.836	618.760						24
25						618.831	618.747						25
26						618.841	618.744*						26
27						618.830*	618.763						27
28					618.778	618.830	618.751	618.602*	618.510*				28
29						618.820	618.728						29
30						618.820	618.731						30
31					618.797		618.721						31
TOT	618.811				1856.407	18564.994	19182.195	14848.233	618.510	618.581			TOT
MEAN	618.811x				618.802x	618.833	618.780	618.676x	618.510x	618.581x			MEAN
MAX	618.811				618.832	618.898	618.841	618.733	618.510	618.581			MAX
MIN	618.811				618.778	618.772	618.721	618.602	618.510	618.581			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 618.898 Metres on JUN 12
Minimum Observed Daily Water Level: 618.510 Metres on SEP 28

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 619.924 Metres on 1978.06.16
Minimum Observed Daily Water Level: 618.204 Metres on 1988.11.15

Location: LSD SW Sec. 32 Tp. 077 Rge. 19 W5
Latitude: 55 43'   Longitude: 116 55'

From Hwy #49 just NW of hospital, walk 0.30 km N on trail by canal (LB). Trail very soft.

Gauge Type: Outside Staff Gauge.
Period of Record: 1978-1990
Hydrographic Survey Map Available? NO
There are Alberta Environment outflow structures on this lake. Geodetic Elevation verified in 1987 and 1989. Daily data available from May 30 to Aug 23, 1990.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: KINKY LAKE NEAR HINTON

STATION NUMBER: 07AD902

LOCATION: 50-26-W5 - From Highway #40 junction, 10.8 km SW on Highway #16, 2.1 km WNW, 0.5 km SW to Forestry Recreation Area.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1972 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Expanded to Staff Gauge 1981.
Hydrographic Survey 1971.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Kinky Lake near Hinton

Station No. 07AD902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						1152.416	1152.399		1152.450	1152.412*			1
2						1152.422	1152.407		1152.444				2
3						1152.426		1152.467	1152.442				3
4	1152.252*					1152.433		1152.461					4
5								1152.453					5
6							1152.502	1152.451					6
7						1152.423	1152.516						7
8						1152.421	1152.512						8
9					1152.301	1152.414	1152.510						9
10						1152.412	1152.512*	1152.435					10
11					1152.311	1152.414		1152.433					11
12					1152.321		1152.508	1152.432					12
13					1152.327		1152.504	1152.429					13
14					1152.327	1152.454	1152.498						14
15						1152.455	1152.492						15
16						1152.454	1152.492	1152.425					16
17						1152.454		1152.427					17
18					1152.352	1152.452		1152.425					18
19					1152.342		1152.488	1152.423					19
20					1152.352		1152.492	1152.417					20
21					1152.360	1152.442							21
22						1152.433	1152.484						22
23						1152.425	1152.482	1152.428					23
24					1152.362	1152.425		1152.430					24
25					1152.366	1152.421		1152.428					25
26					1152.372		1152.493	1152.448					26
27					1152.370		1152.487	1152.444					27
28					1152.373	1152.407	1152.487						28
29						1152.405	1152.485						29
30						1152.401	1152.481	1152.450					30
31					1152.397			1152.452					31
TOT	1152.252				17285.233	25353.409	24202.231	23048.758	3457.336	1152.412			TOT
MEAN	1152.252x				1152.349x	1152.428x	1152.487x	1152.438x	1152.445x	1152.412x			MEAN
MAX	1152.252				1152.397	1152.455	1152.516	1152.467	1152.450	1152.412			MAX
MIN	1152.252				1152.301	1152.401	1152.399	1152.417	1152.442	1152.412			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1152.516 Metres on JUL 7
Minimum Observed Daily Water Level:1152.252 Metres on JAN 4

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1152.516 Metres on 1990.07.07
Minimum Observed Daily Water Level:1151.787 Metres on 1977.01.26

Location: LSD SW Sec. 05 Tp. 050 Rge. 26 W5
Latitude: 53 17' Longitude: 117 47'

From Hwy #40 junction, 10.8 km SW on Hwy #16, 2.1 km WNW, 0.5 km SW to AFS recreation area.

Gauge Type: Outside Staff Gauge.
Period of Record: 1972-1990
Hydrographic Survey Map Available? YES
Expanded to staff gauge 1981. Hydrographic Survey 1971.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	LA GLACE LAKE NEAR LA GLACE
STATION NUMBER:	07GE911
LOCATION:	74-08-W6 - From La Glace, 4.8 km West on Highway #59, South to lake.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1976 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure (Tacoma Lake Project) on this lake constructed in 1948. Presently licenced by the County of Grande Prairie and is inactive with all stop-logs removed. The min. observed water level occurred Jan 09/79, not 1977 as indicated in publications prior to 1989.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

La Glace Lake near La Glace

Station No. 07GE911

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						722.278	722.743	722.072	722.025	721.922			1
2						722.313	722.701	722.070	722.025	721.922			2
3						722.313	722.641	722.068	722.020	721.922			3
4						722.323	722.571	722.063	722.015	721.922			4
5						722.323	722.501	722.063	722.010	721.922			5
6						722.323	722.471E	722.058	722.010	721.922			6
7						722.317	722.356E	722.053	722.005	721.922			7
8						722.312	722.346	722.053	721.995	721.922			8
9						722.272	722.331	722.048	721.995	721.922			9
10						722.272	722.321	722.043	721.995	721.927			10
11						722.322	722.311	722.038	721.990	721.927			11
12						722.422	722.286*	722.033	721.985	721.928			12
13							722.271	722.028	721.980	721.928			13
14							722.231	722.028	721.976	721.928			14
15							722.226	722.023	721.971	721.928			15
16							722.191	722.023	721.971	721.928			16
17							722.171	722.024	721.966	721.928			17
18							722.171	722.024	721.961	721.928			18
19							722.166	722.024	721.956	721.927*			19
20							722.162	722.024	721.951				20
21						722.971E	722.157	722.059	721.946				21
22	722.154*					722.976	722.142	722.054	721.941				22
23					722.258	722.851	722.137	722.053	721.936				23
24					722.253	722.801	722.132	722.049	721.931				24
25					722.253	722.806	722.122	722.034	721.926				25
26					722.263	722.751	722.162	722.029	721.921				26
27					722.248	722.746	722.132	722.024	721.921				27
28					722.248	722.746	722.122	722.024	721.922				28
29					722.248	722.746	722.082	722.024	721.922				29
30					722.263	722.746	722.082	722.024	721.922				30
31					722.273		722.072	722.025					31
TOT	722.154				6500.307	15895.930	22390.510	22383.259	21659.090	13716.575			TOT
MEAN	722.154x				722.256x	722.542x	722.275	722.041	721.970	721.925x			MEAN
MAX	722.154				722.273	722.976	722.743	722.072	722.025	721.928			MAX
MIN	722.154				722.248	722.272	722.072	722.023	721.921	721.922			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 722.976 Metres on JUN 22
Minimum Observed Daily Water Level: 721.921 Metres on SEP 26

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 723.248 Metres on 1976.08.24
Minimum Observed Daily Water Level: 721.651 Metres on 1979.01.09

Location: LSD NW Sec. 07 Tp. 074 Rge. 08 W6
Latitude: 55 23'   Longitude: 119 16'

From La Glace, 4.8 km W on Hwy #59, 0.7 km S, E through yard and S to lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1976-1990
Hydrographic Survey Map Available? NO
Expanded to staff gauge 81-G5. Ducks Unlimited control structure (Tacoma Lake Project) constructed 1948.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: LAC BELLEVUE NEAR ST. PAUL

STATION NUMBER: 05ED909

LOCATION: 56-09-W4 - On the North end of Lac Bellevue, 19.3 km South of St. Paul.

GAUGE TYPE: None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation revised in 1988. Add 30.000 m to published data prior to 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LAC BELLEVUE NEAR ST. PAUL

STATION NO. 05ED909

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						645.894	645.907	645.890	645.821				1
2						645.894	645.907	645.890	645.819				2
3						645.894	645.911	645.886	645.820				3
4						645.894	645.939	645.882	645.820				4
5						645.894	645.939	645.879	645.818				5
6						645.892		645.875	645.818				6
7						645.892	645.937	645.871	645.816				7
8						645.892	645.937	645.863	645.814				8
9						645.894	645.935	645.857	645.815				9
10							645.935	645.851	645.811				10
11							645.935	645.846	645.811				11
12						645.896	645.931	645.842	645.811				12
13						645.896	645.927	645.838	645.807				13
14						645.896	645.921	645.838	645.807				14
15						645.896	645.919	645.836	645.808				15
16						645.897	645.915	645.834	645.806				16
17					645.920	645.899	645.913	645.835	645.804				17
18					645.920	645.899	645.913	645.831	645.804				18
19					645.920	645.899	645.914	645.829	645.800				19
20					645.920	645.899	645.912	645.827	645.798				20
21					645.924	645.899	645.912	645.827	645.799				21
22					645.928	645.901	645.910	645.823	645.795				22
23					645.928	645.901	645.908	645.824	645.795	645.659			23
24	645.796				645.928	645.901	645.906	645.822	645.791				24
25					645.926	645.903	645.903	645.822	645.791				25
26					645.926	645.903	645.903	645.820	645.787				26
27					645.924	645.905	645.901	645.820	645.788				27
28					645.920	645.907	645.899	645.818	645.784				28
29					645.908	645.907	645.897	645.819	645.784				29
30					645.904	645.907	645.893	645.821	645.780				30
31					645.898		645.892	645.821					31
TOTAL								20021.137	19374.122				TOTAL
MEAN								645.843	645.804				MEAN
MAX								645.890	645.821				MAX
MIN								645.818	645.780				MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 645.939 METRES ON JUL 4

MINIMUM OBSERVED DAILY WATER LEVEL, 645.659 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 646.731 METRES ON AUG 20/79
MIN. OBSERVED WATER LEVEL, 645.659 METRES ON OCT 23/90

LAKE - STATION DESCRIPTION

STATION NAME: LAC BROSSEAU NEAR TWO HILLS

STATION NUMBER: 05ED914

LOCATION: 56-12-W4 - 1 km East of Highway #36 and 4.8 km North on Highway #36 from North Saskatchewan River Bridge at Duvernay.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1984 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation tie to bench marks in May 1987, all data corrected to this datum. For published data prior to 1987 add 582.973 m for conversion to Geodetic elevation.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LAC BROSSEAU NEAR TWO HILLS

STATION NO. 05DE914

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4				582.695									4
5													5
6													6
7													7
8													8
9													9
10					582.802								10
11													11
12													12
13													13
14													14
15													15
16							582.648						16
17													17
18													18
19													19
20													20
21													21
22													22
23										582.521			23
24	582.601												24
25													25
26									582.543				26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 582.802 METRES ON MAY 10

MINIMUM OBSERVED DAILY WATER LEVEL, 582.521 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 582.820 METRES ON APR 12/87
MIN. OBSERVED WATER LEVEL, 582.138 METRES ON FEB 09/87

LAKE - STATION DESCRIPTION

STATION NAME:	LAC SAINT CYR NEAR ST. PAUL
STATION NUMBER:	05ED910
LOCATION:	57-09-W4 - South end of Lac Saint Cyr, 5.6 km East and 10.5 km South of St. Paul.
GAUGE TYPE:	Tape and Weight.
PERIOD OF RECORD:	1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is an Alberta Environment Control Structure on this lake. (Proposed F.S.L.= 645.41 m). Water levels are taken weekly by Town of St. Paul staff.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LAC SAINT CYR NEAR ST. PAUL

STATION NO. 05ED910

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						644.621							1
2		644.713	644.780								644.164		2
3								644.420					3
4					644.719								4
5	644.704									644.228			5
6				644.780			644.597						6
7									644.335			644.292	7
8						644.576							8
9		644.725	644.762								644.173		9
10								644.405					10
11					644.695								11
12	644.719									644.207			12
13				644.762			644.582						13
14									644.298			644.378	14
15						644.551							15
16		644.756	644.728								644.198		16
17					644.720		644.542	644.439					17
18					644.719								18
19	644.734									644.173			19
20				644.740			644.521						20
21									644.304			644.414	21
22						644.536							22
23		644.795	644.765							644.228	644.210		23
24	644.721 B							644.408					24
25					644.707								25
26	644.740									644.161			26
27				644.728			644.445						27
28									644.289			644.448	28
29						644.524							29
30			644.774								644.247		30
31								644.384					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 644.795 METRES ON FEB 23

MINIMUM OBSERVED DAILY WATER LEVEL, 644.161 METRES ON OCT 26
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 645.390 METRES ON MAR 14/86
MIN. OBSERVED WATER LEVEL, 644.161 METRES ON OCT 26/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: LAC SANTE NEAR ST. PAUL

STATION NUMBER: 05ED911

LOCATION: 56-11-W4 - East side of Lac Sante, 17.7 km West and 17.7 km South of St. Paul.

GAUGE TYPE: None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.

PERIOD OF RECORD: 1968- 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LAC SANTE' NEAR ST. PAUL

STATION NO. 05ED911

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						606.488	606.488	606.438	606.387	606.292			1
2						606.486	606.488	606.438	606.383	606.286			2
3						606.484	606.488	606.436	606.381	606.282			3
4						606.482	606.496	606.436	606.381	606.274			4
5						606.483	606.495	606.436	606.377	606.274			5
6							606.491	606.416	606.373	606.272			6
7						606.489	606.489	606.416	606.371	606.270			7
8						606.495	606.489	606.414	606.365	606.266			8
9						606.497	606.489	606.414	606.363	606.264			9
10					606.501	606.499	606.489		606.363	606.264			10
11					606.501	606.499	606.485	606.409	606.363	606.264			11
12					606.501	606.500	606.484	606.405	606.363	606.262			12
13					606.501	606.498	606.468	606.401	606.357	606.260			13
14					606.502	606.500	606.464	606.395	606.355	606.258			14
15					606.502	606.488	606.462	606.395	606.353	606.258			15
16					606.502	606.490	606.469	606.395	606.345				16
17					606.502	606.488	606.462	606.393	606.343				17
18					606.502	606.486	606.462	606.393	606.335				18
19					606.501	606.480	606.460	606.393	606.335				19
20					606.500	606.481	606.458	606.413	606.323				20
21					606.501	606.475	606.458	606.409	606.321				21
22					606.501	606.475	606.454	606.409	606.321				22
23					606.499	606.475	606.450	606.409	606.319	606.228			23
24	606.394				606.499	606.475	606.448	606.403	606.317				24
25					606.499	606.481	606.444	606.403	606.315				25
26					606.499	606.479	606.442	606.399	606.313				26
27					606.497	606.482	606.440	606.397	606.311				27
28					606.497	606.486	606.440	606.393	606.304				28
29					606.498	606.488	606.438	606.387	606.296				29
30					606.496	606.488	606.438	606.381	606.294				30
31					606.494		606.438	606.387					31
TOTAL							18800.466		18190.327				TOTAL
MEAN							606.467		606.344				MEAN
MAX							606.496		606.387				MAX
MIN							606.438		606.294				MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 606.502 METRES ON MAY 14

MINIMUM OBSERVED DAILY WATER LEVEL, 606.228 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 608.006 METRES ON JUN 10/74
MIN. OBSERVED WATER LEVEL, 606.228 METRES ON OCT 23/90

LAKE - STATION DESCRIPTION

STATION NAME:	LAKE NEWELL NEAR BROOKS
STATION NUMBER:	05BN901
LOCATION:	16-14-W4 - 20.9 km South of Brooks at Rolling Hills Headgates.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1973- 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Water Survey of Canada operated station 05BN020 "near Brooks" in 1920-25. This Lake is also monitored by E.I.D.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LAKE NEWELL NEAR BROOKS

STATION NO. 05BN901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6						767.358							6
7													7
8													8
9													9
10													10
11				766.858									11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24										766.828			24
25													25
26													26
27													27
28													28
29								766.428					29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 767.358 METRES ON JUN 6

MINIMUM OBSERVED DAILY WATER LEVEL, 766.428 METRES ON AUG 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 767.788 METRES ON MAY 22/85
MIN. OBSERVED WATER LEVEL, 764.627 METRES ON APR 25/74

LAKE - STATION DESCRIPTION

STATION NAME: LAST LAKE NEAR WHITELAW

STATION NUMBER: 07FD918

LOCATION: 83-01-W6 - From Secondary #737, 4.8 km West on Secondary #685, 3.2 km north, 1.7 km West, South to lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1981- 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Last Lake near Whitelaw

Station No. 07FD918

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	654.359*												8
9													9
10													10
11													11
12													12
13													13
14					654.554								14
15													15
16							654.478*						16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24									654.263*				24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	654.359				654.554		654.478		654.263				TOT
MEAN	654.359x				654.554x		654.478x		654.263x				MEAN
MAX	654.359				654.554		654.478		654.263				MAX
MIN	654.359				654.554		654.478		654.263				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 654.554 Metres on MAY 14
Minimum Observed Daily Water Level: 654.263 Metres on SEP 24

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 654.794 Metres on 1984.07.18
Minimum Observed Daily Water Level: 653.919 Metres on 1981.10.14

Location: LSD NE Sec. 36 Tp. 083 Rge. 01 W6
Latitude: 56 15'   Longitude: 118 00'

Gauge Type: None. Level Established by Surveying.
Period of Record: 1981-1990
Hydrographic Survey Map Available? NO

From Sec #737, 4.8 km W on Sec #685, 3.2 km N, 1.7 km W to field access, S to lake.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: LAURIER LAKE NEAR HEINSBURG

STATION NUMBER: 05ED912

LOCATION: 56-04-W4 - Southeast side of Laurier Lake, 8.5 km North and 0.3 km East of Heinsburg.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified May 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LAURIER LAKE NEAR HEINSBURG

STATION NO. 05ED912

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								566.043	565.979				1
2													2
3								566.029	565.974	565.884			3
4						566.123		566.024	565.969				4
5						566.123		566.024	565.969				5
6						566.124		566.024	565.959				6
7						566.121							7
8								565.999	565.959				8
9						566.104		565.999	565.959				9
10						566.104							10
11						566.104		565.999					11
12								565.999					12
13								565.999	565.954				13
14								565.994	565.949				14
15								565.989	565.929				15
16						566.094			565.979				16
17					566.169	566.084		566.019					17
18						566.084		566.009					18
19						566.079							19
20								565.999					20
21					566.174								21
22					566.176								22
23						566.074		565.989					23
24													24
25								565.979					25
26								565.979					26
27					566.159								27
28								565.974					28
29								565.974					29
30								565.974					30
31	565.979							565.979					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 566.176 METRES ON MAY 22

MINIMUM OBSERVED DAILY WATER LEVEL, 565.884 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 567.175 METRES ON JUN 11/74
MIN. OBSERVED WATER LEVEL, 565.884 METRES ON OCT 03/90

LAKE - STATION DESCRIPTION

STATION NAME:	LAWRENCE LAKE NEAR ATHABASCA
STATION NUMBER:	07BE905
LOCATION:	69-25-W4 - East side of Lawrence Lake, 24.1 km West and 31.4 km North of Athabasca.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1964; 1968 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Geodetic elevation revised in 1984. Subtract 0.649 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LAWRENCE LAKE NEAR ATHABASCA

STATION NO. 07BE905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					644.023								8
9							644.022						9
10										643.813			10
11													11
12													12
13													13
14													14
15													15
16													16
17	643.899												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 644.023 METRES ON MAY 8

MINIMUM OBSERVED DAILY WATER LEVEL, 643.813 METRES ON OCT 10
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 644.448 METRES ON JAN 17/84
MIN. OBSERVED WATER LEVEL, 643.342 METRES ON NOV 20/68

LAKE - STATION DESCRIPTION

STATION NAME:	LEBEAUS LAKE NEAR WESTLOCK
STATION NUMBER:	07BE906
LOCATION:	61-25-W4 - North side of lake, 6.4 km East and 11.3 km North of Westlock.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1979 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	There is a Ducks Unlimited outlet control structure on this lake. (Project name is Lac Des James)

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LEBEAUS LAKE NEAR WESTLOCK

STATION NO. 07BE906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					625.008								9
10							624.900						10
11										624.803			11
12													12
13													13
14													14
15													15
16													16
17	624.894 B												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 625.008 METRES ON MAY 9

MINIMUM OBSERVED DAILY WATER LEVEL, 624.803 METRES ON OCT 11
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 626.132 METRES ON JUN 01/79
MIN. OBSERVED WATER LEVEL, 624.803 METRES ON OCT 11/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	LEDDY LAKE NEAR CHINOOK VALLEY	
STATION NUMBER:	07FD925	
LOCATION:	29-85-22-W5 -	From Highway #2 West of Peace River, 16 km North on Secondary #743, 6.4 km West to recreation area.
GAUGE TYPE:	Staff Gauge.	
PERIOD OF RECORD:	1989 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Leddy Lake near Chinook Valley

Station No. 07FD925

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						638.226	638.263	638.163					1
2						638.225	638.253	638.163					2
3						638.215		638.133					3
4						638.215	638.252	638.134					4
5							638.252						5
6						638.215	638.252	638.124					6
7							638.252						7
8						638.205	638.252	638.114					8
9						638.205		638.114					9
10	638.128*					638.195		638.114					10
11							638.252	638.105					11
12							638.232	638.105					12
13						638.264		638.105					13
14						638.264		638.095					14
15							638.211	638.095					15
16					638.247*	638.264	638.221	638.095					16
17					638.247	638.264	638.221	638.096		638.007*			17
18					638.247	638.264	638.199*	638.096					18
19					638.237	638.264	638.211	638.096					19
20					638.237	638.264	638.211	638.096					20
21					638.237	638.264	638.211	638.086					21
22					638.236	638.254	638.212						22
23					638.236		638.202						23
24					638.226		638.192	638.077					24
25					638.226	638.233	638.192						25
26						638.233	638.182						26
27					638.236		638.172		638.015*				27
28					638.236	638.233	638.172	638.077					28
29					638.236	638.233	638.163	638.068					29
30					638.226	638.233	638.163						30
31					638.226								31
TOT	638.128				9573.536	14041.232	15955.395	14038.351	638.015	638.007			TOT
MEAN	638.128x				638.236x	638.238x	638.216x	638.107x	638.015x	638.007x			MEAN
MAX	638.128				638.247	638.264	638.263	638.163	638.015	638.007			MAX
MIN	638.128				638.226	638.195	638.163	638.068	638.015	638.007			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 638.264 Metres on JUN 13
Minimum Observed Daily Water Level: 638.007 Metres on OCT 17

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 638.264 Metres on 1990.06.13
Minimum Observed Daily Water Level: 638.007 Metres on 1990.10.17

Location: LSD SW Sec. 29 Tp. 85 Rge. 22 W5
Latitude: 58 10' Longitude: 116 28'

Gauge Type: Outside Staff Gauge.
Period of Record: 1989-1990
Hydrographic Survey Map Available? NO

From Hwy #2 W of Peace River, 16 km N on Sec #743, 6.4 km W to recreation site.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: LEES LAKE NEAR PINCHER CREEK

STATION NUMBER: 05AA903

LOCATION: 07-02-W5 - 4.8 km Southeast of Burmis at Southeast corner of Lees Lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1977 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LEES LAKE NEAR PINCHER CREEK

STATION NO. 05AA903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7						27.893							7
8													8
9													9
10													10
11													11
12													12
13													13
14								27.743					14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29			27.513							27.598			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 27.893METRES ON ,JUN 7

MINIMUM OBSERVED DAILY WATER LEVEL, 27.513METRES ON ,MAR 29
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 28.986 METRES ON JUN 23/81
MIN. OBSERVED WATER LEVEL, 27.283 METRES ON NOV 16/88

LAKE - STATION DESCRIPTION

STATION NAME: LESSARD LAKE NEAR GLENEVIS

STATION NUMBER: 05BB904

LOCATION: 55-05-W5 - East side of Lessard Lake, 7.2 km West and 0.8 km South of Glenevis.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation revised in 1984. Subtract 39.530 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LESSARD LAKE NEAR GLENEVIS

STATION NO. 07BB904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					700.207								10
11							700.226						11
12										700.043			12
13													13
14													14
15													15
16													16
17													17
18													18
19	700.141												19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 700.226 METRES ON JUL 11

MINIMUM OBSERVED DAILY WATER LEVEL, 700.043 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 700.325 METRES ON JUL 20/89
MIN. OBSERVED WATER LEVEL, 699.634 METRES ON OCT /69

LAKE - STATION DESCRIPTION

STATION NAME:	LINTON LAKE NEAR LA CRETE
STATION NUMBER:	07HF901
LOCATION:	SE 31-105-15-W5 - From centre of La Crete, 2 km South, 3.2 km West, 0.7 km South and West to boat launch access.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Linton Lake near La Crete

Station No. 07HF901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10	98.502*												10
11													11
12													12
13													13
14													14
15													15
16					98.643*								16
17													17
18							98.438*						18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26									98.318*				26
27													27
28													28
29													29
30													30
31													31
TOT	98.502				98.643		98.438		98.318				TOT
MEAN	98.502x				98.643x		98.438x		98.318x				MEAN
MAX	98.502				98.643		98.438		98.318				MAX
MIN	98.502				98.643		98.438		98.318				MIN

WATER LEVELS ARE REFERRED TO:
ASSUMED DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 98.643 Metres on MAY 16
Minimum Observed Daily Water Level: 98.318 Metres on SEP 26

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 98.643 Metres on 1990.05.16
Minimum Observed Daily Water Level: 98.109 Metres on 1987.07.29

Location: LSD SE Sec. 31 Tp. 105 Rge. 15 W5
Latitude: 58 10' Longitude: 116 28'

From Sec #697 corner ENE of La Crete, 3.2 km S, 6.4 km W ,
0.7 km S & W to boat launch access.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	LITTLE BEAVER LAKE NEAR FERINTOSH
STATION NUMBER:	05FC901
LOCATION:	44-21-W4 - East side of Little Beaver Lake at Ferintosh.
GAUGE TYPE:	None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.
PERIOD OF RECORD:	1971; 1973 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	There is a Ducks Unlimited Control Structure on this lake. Geodetic elevation revised in 1987. Add 0.442 m to published data prior to 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LITTLE BEAVER LAKE NEAR FERINTOSH

STATION NO. 05FC901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								746.231					1
2													2
3								746.225					3
4						746.235							4
5						746.240							5
6						746.246	746.301						6
7					746.243	746.248		746.211					7
8					746.234	746.244		746.205					8
9					746.236	746.240	746.286	746.201					9
10					746.238		746.282	746.197					10
11					746.237								11
12						746.248	746.276	746.193		746.066			12
13					746.239		746.274	746.191					13
14					746.239	746.253		746.183					14
15					746.243	746.251		746.179					15
16					746.237	746.249	746.275	746.181					16
17					746.237		746.269	746.183					17
18					746.239	746.241	746.265						18
19					746.238	746.237							19
20							746.255	746.179					20
21					746.234	746.234		746.177					21
22						746.230		746.175					22
23	745.847				746.238	746.226	746.245	746.171					23
24							746.241	746.167					24
25					746.234	746.220	746.239						25
26						746.220	746.245						26
27						746.218	746.247	746.165					27
28								746.163					28
29													29
30					746.221		746.237						30
31					746.219		746.235	746.162					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 746.301 METRES ON JUL 6

MINIMUM OBSERVED DAILY WATER LEVEL, 745.847 METRES ON JAN 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 746.824 METRES ON JUL 12/73
MIN. OBSERVED WATER LEVEL, 745.816 METRES ON OCT 26/89

LAKE - STATION DESCRIPTION

STATION NAME: LITTLE FISH LAKE NEAR DRUMHELLER

STATION NUMBER: 05CG901

LOCATION: 28-16-W4 - Provincial Park at Little Fish Lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a ducks Unlimited Control Structure on this lake. An earth fill dam with natural spillway was constructed in 1966.
Geodetic elevation revised in 1983. Subtract 93.735 m from published data prior to 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LITTLE FISH LAKE NEAR DRUMHELLER

STATION NO. 05CG901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3								892.216	892.121				3
4								892.206					4
5													5
6								892.191					6
7						892.379			892.120				7
8													8
9													9
10								892.171	892.110				10
11													11
12													12
13								892.136					13
14													14
15						892.381							15
16						892.387							16
17								892.136					17
18						892.382							18
19							892.267						19
20								892.136					20
21							892.261						21
22					892.369								22
23						892.359				891.990			23
24				892.389				892.146					24
25						892.364							25
26					892.345								26
27								892.151					27
28					892.351								28
29						892.338	892.226						29
30	892.696 B												30
31							892.221	892.141					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 892.696 METRES ON JAN 30

MINIMUM OBSERVED DAILY WATER LEVEL, 891.990 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 895.975 METRES ON JUN 11/75
MIN. OBSERVED WATER LEVEL, 891.990 METRES ON OCT 23/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: LITTLE McLEOD (PEGASUS) LAKE NEAR WHITECOURT

STATION NUMBER: 07AH904

LOCATION: 61-11-W5 - West side of Pegasus Lake, 19.3 km North and 3.2 km East of Whitecourt.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Water levels are assumed 1971, 1972 and 1977-1981 Geodetic 1973-1976.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LITTLE MCLEOD LAKE (PEGASUS LAKE) NEAR WHITECOURT

STATION NO. 07AH904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					874.700								9
10													10
11							874.672			874.440			11
12													12
13													13
14													14
15													15
16													16
17													17
18	874.490												18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 874.700 METRES ON MAY 9

MINIMUM OBSERVED DAILY WATER LEVEL, 874.440 METRES ON OCT 11
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 875.024 METRES ON MAY 06/87
MIN. OBSERVED WATER LEVEL, 874.337 METRES ON FEB 17/82

LAKE - STATION DESCRIPTION

STATION NAME: LLOYD LAKE NEAR PRIDDIS

STATION NUMBER: 05BK901

LOCATION: 20-02-W5 - 8 km West of Highway #2 and 1.6 km South of junction of Highway #2 and Highway #22X.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1980 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Lake dry periods since 1986.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LLOYD LAKE NEAR PRIDDIS

STATION NO. 05BK901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6						DRY							6
7													7
8													8
9													9
10													10
11				DRY									11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23										DRY			23
24													24
25													25
26													26
27													27
28													28
29								DRY					29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, ******** METRES ON SEP 5

MINIMUM OBSERVED DAILY WATER LEVEL, DRY ON APR 11
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1129.430 METRES ON JUN 13/80
MIN. OBSERVED LAKE DRY ON APR 11 - OCT 23/90

LAKE - STATION DESCRIPTION

STATION NAME: LONG ISLAND LAKE NEAR WESTLOCK

STATION NUMBER: 07BC901

LOCATION: 63-25-W4 - The East side of Long Island Lake, about 32.2 km North of Westlock.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1961; 1963; 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake. A concrete weir was constructed in 1955 and repaired in 1964. Geodetic elevation verified in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LONG ISLAND LAKE NEAR WESTLOCK

STATION NO. 07BC901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					697.718								8
9							697.802						9
10										697.606			10
11													11
12													12
13													13
14													14
15													15
16													16
17	697.608												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 697.802 METRES ON JUL 9

MINIMUM OBSERVED DAILY WATER LEVEL, 697.606 METRES ON OCT 10
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 697.802 METRES ON JUL 09/90
MIN. OBSERVED WATER LEVEL, 696.758 METRES ON JUL 04/61

LAKE - STATION DESCRIPTION

STATION NAME: LONG LAKE NEAR ATHABASCA

STATION NUMBER: 07BC905

LOCATION: 64-25-W4 - From the junction of Highway #2 and Secondary #663 proceed 18.4 km West to lake.

GAUGE TYPE: Water level recorder.

PERIOD OF RECORD: 1983 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LONG LAKE NEAR ATHABASCA

STATION NO. 07BC905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1					0.481 E	0.501	0.549	0.585	0.538	0.503			1
2					0.481 E	0.498	0.553	0.579	0.534	0.501			2
3					0.481 A	0.498	0.602	0.574	0.531	0.499			3
4					0.479	0.496	0.628	0.570	0.528	0.498			4
5					0.475	0.501	0.630	0.568	0.525	0.501			5
6					0.468	0.500	0.632	0.564	0.530	0.501			6
7					0.470	0.501	0.640	0.560	0.528	0.500			7
8					0.474	0.499	0.641	0.554	0.529	0.499			8
9					0.472	0.498	0.641	0.552	0.530	0.499			9
10					0.467	0.496	0.640	0.549	0.527	0.501			10
11					0.466	0.507	0.638	0.547	0.526	0.501			11
12					0.463	0.504	0.636	0.545	0.544	0.500			12
13					0.462	0.501	0.630	0.540	0.542	0.499			13
14					0.467	0.503	0.621	0.537	0.541	0.499			14
15					0.468	0.501	0.618	0.537	0.540	0.498			15
16					0.469	0.501	0.617	0.540	0.538	0.498			16
17					0.469	0.516	0.620	0.544	0.535	0.497			17
18					0.471	0.516	0.619	0.542	0.532	0.496			18
19					0.477	0.514	0.616	0.539	0.531	0.493			19
20					0.483	0.514	0.615	0.538	0.529	0.493			20
21					0.485	0.511	0.614	0.535	0.526	0.493			21
22					0.486	0.509	0.612	0.538	0.525	0.491			22
23					0.489	0.506	0.609	0.538	0.524	0.491			23
24					0.499	0.503	0.610	0.534	0.521	0.491			24
25					0.503	0.501	0.608	0.531	0.519	0.490			25
26					0.502	0.509	0.607	0.531	0.515	0.495			26
27					0.502	0.551	0.602	0.530	0.513	0.497			27
28					0.503	0.555	0.597	0.528	0.511	0.496			28
29					0.502	0.554	0.594	0.525	0.507	0.495 A			29
30					0.503	0.552	0.591	0.527	0.505	0.495 E			30
31					0.504		0.590	0.539		0.495 E			31
TOTAL					14.921	15.316	19.020	16.920	15.824	15.405			TOTAL
MEAN					0.481	0.511	0.614	0.546	0.528	0.497			MEAN
MAX					0.504	0.555	0.641	0.585	0.544	0.503			MAX
MIN					0.462	0.496	0.549	0.525	0.505	0.490			MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY WATER LEVEL, 0.641 METRES ON JUL 8

MINIMUM DAILY WATER LEVEL, 0.462 METRES ON MAY 13
MAXIMUM INSTANTANEOUS WATER LEVEL, METRES AT
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1.018 METRES ON JUL 19/86
MIN. OBSERVED WATER LEVEL, 0.082 METRES ON JUL 29/87

A - MANUAL GAUGE
E - ESTIMATED

LAKE - STATION DESCRIPTION

STATION NAME: LONG LAKE NEAR BARRHEAD

STATION NUMBER: 07BB913

LOCATION: 59-06-W5

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1982 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited Control Structure on the lake but is operated by the Town of Barrhead for water supply. Geodetic Elevation revised, subtract 2.847 m from data published before 1989.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LONG LAKE NEAR BARRHEAD

STATION NO. 07BB913

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					652.110								9
10							652.086						10
11										651.962			11
12													12
13													13
14													14
15													15
16													16
17													17
18	652.161 B												18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 652.161 METRES ON JAN 18

MINIMUM OBSERVED DAILY WATER LEVEL, 651.962 METRES ON OCT 11
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 652.822 METRES ON JUN 05/86
MIN. OBSERVED WATER LEVEL, 651.827 METRES ON OCT 07/83

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: LONG LAKE NEAR BOYLE

STATION NUMBER: 06AA909

LOCATION: 63-19-W4 - On West side of Long Lake, 16.1 km South of Boyle, in Provincial Park.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LONG LAKE NEAR BOYLE

STATION NO. 06AA909

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1							621.044	621.093	621.059	620.864			1
2						621.046	621.046	621.094					2
3						621.046		621.089					3
4						621.044	621.129	621.089					4
5						621.038	621.129	621.089					5
6						621.038	621.134	621.074					6
7						621.042	621.142						7
8						621.042	621.149	621.060					8
9						621.039	621.154	621.060					9
10							621.154						10
11													11
12								621.056					12
13													13
14					621.035	621.049							14
15						621.049	621.133						15
16						621.049	621.133	621.056					16
17						621.055							17
18						621.054	621.123	621.057					18
19						621.054	621.123						19
20						621.054	621.123	621.057					20
21						621.054	621.123	621.057					21
22						621.049	621.121	621.065					22
23					621.025	621.049	621 121						23
24					621.025	621.049	621.115	621.066					24
25							621.115	621.066					25
26					621.051			621.060					26
27					621.053	621.034	621.111	621.058					27
28					621.055	621.034	621.111	621.057					28
29	620.940				621.055	621.044	621.109	621.059					29
30					621.055	621.044	621.096	621.059					30
31					621.053		621.095	621.059					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 621.154 METRES ON JUL 9

MINIMUM OBSERVED DAILY WATER LEVEL, 620.864 METRES ON OCT 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 621.231 METRES ON JUL 18/86
MIN. OBSERVED WATER LEVEL, 620.497 METRES ON OCT 20/72

LAKE - STATION DESCRIPTION

STATION NAME: LONG LAKE NEAR EDSON

STATION NUMBER: 07AG902

LOCATION: 55-15-W5 - From Highway #32, 9.6 km West on Secondary #748, 5.6 km North, 5.0 km West, 1.0 km South to lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1969-70; 1972 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Lake Levels are Geodetic 1969 to 1973, assumed 1974 to 1982. Geodetic Elevation established 1984. There is no structure on this lake as indicated in 1983. Do not apply a correction to the 1983 - 1986 record period as indicated in previous publications.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Long Lake near Edson

Station No. 07AG902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						867.013	867.305						1
2						867.038	867.305						2
3						867.048				867.042*			3
4						867.053							4
5	866.970*					867.093	867.465						5
6							867.465						6
7						867.153	867.490						7
8						867.158	867.491						8
9								867.163					9
10					866.782*			867.163					10
11						867.173	867.500*	867.163					11
12							867.491	867.163					12
13							867.466	867.153					13
14						867.224	867.415						14
15							867.402						15
16						867.224	867.364	867.153					16
17						867.224		867.153					17
18						867.224		867.163					18
19							867.364	867.163					19
20							867.356	867.163					20
21						867.204	867.347	867.153					21
22						867.184	867.347	867.153					22
23						867.184	867.337	867.148					23
24					866.867	867.194		867.143					24
25					866.892			867.133					25
26					866.922		867.307	867.133					26
27					866.932		867.293E						27
28					866.937	867.285	867.283						28
29						867.285	867.273						29
30						867.290	867.273						30
31					866.993			867.142					31
TOT	866.970				6068.325	16476.251	19082.339	14741.605		867.042			TOT
MEAN	866.970x				866.904x	867.171x	867.379x	867.153x		867.042x			MEAN
MAX	866.970				866.993	867.290	867.500	867.163		867.042			MAX
MIN	866.970				866.782	867.013	867.273	867.133		867.042			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
- Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 867.500 Metres on JUL 11
Minimum Observed Daily Water Level: 866.782 Metres on MAY 10

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 868.019 Metres on 1977.10.27
Minimum Observed Daily Water Level: 866.782 Metres on 1990.05.10

Location: LSD SE Sec. 31 Tp. 055 Rge. 15 W5
Latitude: 53 48'   Longitude: 116 21'

From Hwy #32, 9.6 km W on Sec #748, 5.6 km N, 5.0 km W, 1.0 km S to lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1969-1990
Hydrographic Survey Map Available? NO
Geodetic Elevation established, 1984.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	LOWER MANN LAKE NEAR ASHMONT
STATION NUMBER:	06AA910
LOCATION:	60-11-W4 - South end of Lower Mann Lake, 5.6 km Northeast of Ashmont.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1972 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	**YES**
REMARKS:	Geodetic Elevation verified April 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LOWER MANN LAKE NEAR ASHMONT

STATION NO. 06AA910

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2								614.834					2
3										614.736			3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					614.982								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31	614.880												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 614.982 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 614.736 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 616.196 METRES ON JUN 07/79
MIN. OBSERVED WATER LEVEL, 614.736 METRES ON OCT 03/90

LAKE - STATION DESCRIPTION

STATION NAME: LOWER THERIEN LAKE NEAR ST. PAUL

STATION NUMBER: 05ED906

LOCATION: 57-09-W4 - Southeast end of Lower Therien Lake, 1.6 km West and 6.4 km South of St. Paul.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

LOWER THERIEN LAKE NEAR ST. PAUL

STATION NO. 05ED906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					633.713		633.638						17
18													18
19													19
20													20
21													21
22													22
23										633.430			23
24	633.652												24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 633.713 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 633.430 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 635.313 METRES ON OCT 04/79
MIN. OBSERVED WATER LEVEL, 633.225 METRES ON NOV 12/70

LAKE - STATION DESCRIPTION

STATION NAME:	MAGLOIRE LAKE NEAR FALHER	
STATION NUMBER:	07GJ902	
LOCATION:	79-21-W5 -	From intersection of Highway #49, 19.2 km North on Highway #2, 3.2 km West, 1.6 km South to Lake.
GAUGE TYPE:	None. Level established by surveying.	
PERIOD OF RECORD:	1980 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake constructed in 1978. A correction of +0.296 m must be applied to data prior to 1984.
Geodetic Elevation revised 1986.
Data contributed by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Magloire Lake near Falher

Station No. 07GJ902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11	601.606I												11
12													12
13													13
14													14
15													15
16													16
17					601.750*								17
18													18
19							601.681*						19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28									601.498*				28
29													29
30													30
31													31
TOT	601.606				601.750		601.681		601.498				TOT
MEAN	601.606x				601.750x		601.681x		601.498x				MEAN
MAX	601.606				601.750		601.681		601.498				MAX
MIN	601.606				601.750		601.681		601.498				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 601.750 Metres on MAY 17
Minimum Observed Daily Water Level: 601.498 Metres on SEP 28

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 601.915 Metres on 1981.05.21
Minimum Observed Daily Water Level: 600.981 Metres on 1983.07.05

Location: LSD SW Sec. 35 Tp. 079 Rge. 21 W5
Latitude: 55 53'   Longitude: 117 11'

From Hwy #49 at Donnelly Corner, 19.2 km N on Hwy. #2, 3.2 km W, 1.6 km S.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1980-1990
Hydrographic Survey Map Available? NO
There is a Ducks Unlimited control structure constructed in 1978. Geodetic Elevation revised in 1986. Data contributed by Ducks Unlimited.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	MAJEAU LAKE NEAR GLENEVIS
STATION NUMBER:	07BB905
LOCATION:	57-03-W5 - South end of Majeau Lake, 11.3 km North and 6.4 km East of Glenevis.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic elevation revised in 1984. Add 0.130 m to published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MAJEAU LAKE NEAR GLENEVIS

STATION NO. 07BB905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					676.934								10
11							676.934						11
12										676.799			12
13													13
14													14
15													15
16													16
17													17
18													18
19	676.818												19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 676.934 METRES ON MAY 10

MINIMUM OBSERVED DAILY WATER LEVEL, 676.799 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 677.780 METRES ON MAY 17/74
MIN. OBSERVED WATER LEVEL, 676.583 METRES ON OCT 18/88

LAKE - STATION DESCRIPTION

STATION NAME: MANATOKAN LAKE NEAR IRON RIVER

STATION NUMBER: 06AC908

LOCATION: 63-07-W4 - East side of Manatokan Lake, 3.2 km North and 1.6 km West of Iron River.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MANATOKAN LAKE NEAR IRON RIVER

STATION NO. 06AC908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										554.870			1
2						555.093	555.080	554.999	554.936	554.864			2
3													3
4							555.060						4
5													5
6						555.077		554.978					6
7							555.052		554.923				7
8								554.960					8
9													9
10						555.072		554.952					10
11							555.056						11
12						555.080		554.951					12
13							555.064		554.924				13
14													14
15						555.072	555.046		554.919				15
16					555.127			554.937					16
17						555.072							17
18									554.909				18
19							555.036	554.938					19
20													20
21					555.133		555.029		554.901				21
22						555.052	555.026	554.936					22
23													23
24						555.044			554.895				24
25					555.123			554.915					25
26							555.015	554.915					26
27					555.118								27
28						555.027		554.911					28
29					555.103		555.009		554.877				29
30	554.642					555.022							30
31					555.101		555.003	554.941					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 555.133 METRES ON MAY 21

MINIMUM OBSERVED DAILY WATER LEVEL, 554.642 METRES ON JAN 30
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 556.086 METRES ON JUN 12/74
MIN. OBSERVED WATER LEVEL, 554.588 METRES ON OCT 14/89

LAKE - STATION DESCRIPTION

STATION NAME:	MANAWAN LAKE NEAR LEGAL
STATION NUMBER:	05EA911
LOCATION:	57-25-W4 - East side of Manawan Lake, 4.8 km West and 4.8 km South of Legal.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1957-62; 1964 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	There is an old Ducks Unlimited Control Structure on this lake which is presently being operated by the Manawan Drainage District. A new structure is being proposed for 1988 or 1989. (Concrete weir with flashboards was constructed in 1949, F.S.L. = 698.91 m.)

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MANAWAN LAKE NEAR LEGAL

STATION NO. 05EA911

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					698.764								8
9							698.741						9
10													10
11													11
12										698.598			12
13													13
14													14
15													15
16													16
17	698.586 B												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 698.764 METRES ON MAY 8

MINIMUM OBSERVED DAILY WATER LEVEL, 698.586 METRES ON JAN 17
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 699.729 METRES ON JUL 19/74
MIN. OBSERVED WATER LEVEL, 698.382 METRES ON JUL 19/68

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	MARTIN LAKE NEAR HYTHE
STATION NUMBER:	07GE912
LOCATION:	74-11-W6 - From Highway #2, 11.2 km North on Secondary #721 to lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1972; 1975 - 1989

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake. A steel sheet pile weir with stop log bay was constructed in 1976 (Marten Lake Stabilization Project).

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Martin Lake near Hythe

Station No. 07GE912

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15										813.736*			15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23	814.009I												23
24					814.064								24
25													25
26													26
27													27
28													28
29													29
30							813.922*						30
31													31
TOT	814.009				814.064		813.922			813.736			TOT
MEAN	814.009x				814.064x		813.922x			813.736x			MEAN
MAX	814.009				814.064		813.922			813.736			MAX
MIN	814.009				814.064		813.922			813.736			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 814.064 Metres on MAY 24
Minimum Observed Daily Water Level: 813.736 Metres on OCT 15

Location: LSD SE Sec. 26 Tp. 074 Rge. 11 W6
Latitude: 55 26'   Longitude: 119 34'

From Hwy. #2 near Hythe, 11.0 km N on Sec. #721 to lake.

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 814.791 Metres on 1976.08.24
Minimum Observed Daily Water Level: 813.736 Metres on 1990.10.15
Last Observed Dry on 1989.05.15 Observed Dry 2 x
Gauge Type: None. Level Established by Surveying.
Period of Record: 1972-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure (Marten Lake Stabilization Project) constructed in 1976.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	MATCHAYAW LAKE NEAR STONY PLAIN
STATION NUMBER:	05EA906
LOCATION:	55-01-W5 - North end of Matchayaw Lake, 6.4 km West and 20.9 km North of Stony Plain.
GAUGE TYPE:	Tape and Weight from a Measuring Point.
PERIOD OF RECORD:	1969 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Bridge construction destroyed previous benchmarks. Discharge at outflow available from 1976-79.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MATCHAYAW LAKE NEAR STONY PLAIN

STATION NO. 05EA906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4					678.931								4
5							679.589						5
6													6
7													7
8													8
9								679.351					9
10													10
11													11
12										678.936			12
13													13
14													14
15						679.081							15
16					678.901								16
17				678.871			679.645						17
18				678.873									18
19	678.991		678.871										19
20													20
21								679.276					21
22													22
23													23
24													24
25				679.093									25
26	678.951									678.808			26
27													27
28													28
29			678.877										29
30					678.971								30
31								679.272		678.771			31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 679.645 METRES ON JUL 17

MINIMUM OBSERVED DAILY WATER LEVEL, 678.771 METRES ON OCT 31
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 679.817 METRES ON JUL 22/74
MIN. OBSERVED WATER LEVEL, 678.612 METRES ON OCT 06/87

LAKE - STATION DESCRIPTION

STATION NAME:	McLEOD (CARSON) LAKE NEAR WHITECOURT
STATION NUMBER:	07AH901
LOCATION:	61-11-W5 - About 8 miles North of Whitecourt
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1962; 1966 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MCLEOD LAKE (CARSON LAKE) NEAR WHITECOURT

STATION NO. 07AH901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						853.855	853.857		853.738	853.664			1
2						853.853	853.856		853.735				2
3						853.853	853.877	853.763	853.728				3
4						853.855		853.762	853.727	853.662			4
5						853.857				853.666			5
6						853.856	853.889	853.760		853.666			6
7						853.855			853.723	853.666			7
8						853.854	853.878		853.720	853.665			8
9					853.851	853.852	853.880		853.720				9
10					853.851	853.850	853.876	853.742	853.718				10
11					853.846	853.860	853.870	853.733		853.660			11
12					853.846			853.730					12
13					853.850			853.726	853.720				13
14					853.850			853.726	853.717	853.658			14
15					853.853	853.881	853.838		853.714				15
16					853.853	853.881							16
17					853.853	853.877		853.725	853.712				17
18	853.759				853.853			853.724					18
19					853.853	853.863		853.722					19
20					853.853		853.810	853.720					20
21					853.854			853.718	853.700				21
22					853.856		853.810		853.698				22
23					853.856		853.808		853.696				23
24					853.859		853.806	853.708					24
25					853.859			853.708					25
26					853.859			853.708					26
27					853.862			853.706	853.680				27
28					853.859				853.678				28
29					853.858		853.791	853.708	853.678				29
30					853.858		853.788		853.668				30
31					853.855		853.788	853.738					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 853.889 METRES ON JUL 6

MINIMUM OBSERVED DAILY WATER LEVEL, 853.658 METRES ON OCT 14
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 854.366 METRES ON JUL 02/85
MIN. OBSERVED WATER LEVEL, 851.047 METRES ON MAY 17/76

LAKE - STATION DESCRIPTION

STATION NAME:	MEDICINE LAKE NEAR RIMBEY	
STATION NUMBER:	05CC904	
LOCATION:	43-06-W5 -	East side of Medicine Lake, 12 km South on Highway #22 from Highway #13 and 9 km Southeast of gravel road to campground.
GAUGE TYPE:	Staff Gauge.	
PERIOD OF RECORD:	1969 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MEDICINE LAKE NEAR RIMBEY

STATION NO. 05CC904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						981.415	980.949		980.959				1
2						981.417	980.934	980.914	980.964				2
3						981.410		980.919	980.964				3
4								980.914	980.966				4
5						981.455	981.244	980.916					5
6							981.187	980.922	980.968				6
7		981.343				981.445	981.234	980.922	980.968				7
8						981.450	981.226		980.966				8
9						981.436	981.162	980.919	980.966				9
10						981.432	981.100	980.914	980.968				10
11					981.402		981.064	980.902					11
12					981.394		981.015	980.894					12
13					981.394		980.991	980.889					13
14					981.393	981.354	980.991	980.882					14
15					981.393	981.239	980.968	980.888					15
16					981.393	981.164	980.965	980.894					16
17					981.385	981.092	980.965	980.904					17
18					981.385	981.049		980.904					18
19					981.385	981.034	980.948	980.904					19
20					981.385	981.004	980.941	980.902					20
21						980.992	980.935	980.902					21
22					981.395	980.979	980.924						22
23						980.954	980.922						23
24					981.410	980.939	980.914	980.928					24
25					981.450	980.939		980.934					25
26					981.470	980.939	980.902	980.944					26
27					981.453		980.891	980.944					27
28					981.450	980.949	980.889	980.949					28
29					981.435	980.959	980.894	980.951		980.978			29
30						980.954	980.889						30
31					981.425		980.889	980.954					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 981.470 METRES ON MAY 26

MINIMUM OBSERVED DAILY WATER LEVEL, 980.882 METRES ON AUG 14
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 981.655 METRES ON JUL 20/86
MIN. OBSERVED WATER LEVEL, 980.395 METRES ON SEP 14/70

LAKE - STATION DESCRIPTION

STATION NAME: MERE LAKE NEAR STONY PLAIN

STATION NUMBER: 05EA912

LOCATION: 53-01-W5 - 9.7 km North and 1.6 km West of Stony Plain.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified April 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MERE LAKE NEAR STONY PLAIN

STATION NO. 05EA912

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					732.833								11
12							732.871			732.735			12
13													13
14													14
15													15
16	732.675												16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 732.871 METRES ON JUL 12

MINIMUM OBSERVED DAILY WATER LEVEL, 732.675 METRES ON JAN 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 733.306 METRES ON JUL 22/74
MIN. OBSERVED WATER LEVEL, 732.552 METRES ON FEB 20/89

LAKE - STATION DESCRIPTION

STATION NAME: MILLERS LAKE NEAR MARLBORO

STATION NUMBER: 07AF902

LOCATION: 53-19-W5 - From Marlboro turnoff, 2.6 km East on Highway #16, 0.5 km North, 0.8 km West, and South to North side of Millers Lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: A correction of +2.242 m must be applied to data prior to 1983. There is no structure on this lake as indicated in 1983.
Hydrographic Survey 1971.
Geodetic Elevation revised 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Millers Lake near Marlboro

Station No. 07AF902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						972.789		972.880	972.834				1
2						972.788		972.874	972.833	972.800*			2
3						972.787	972.927	972.869	972.833				3
4	972.695*					972.788	972.928	972.865	972.831				4
5						972.789	972.928	972.862	972.831				5
6						972.789	972.943	972.859	972.833				6
7						972.788	972.946	972.855	972.831				7
8						972.788	972.947	972.849	972.828				8
9					972.728	972.788	972.942	972.846					9
10					972.729	972.789	972.941*	972.844					10
11					972.729		972.938						11
12					972.734		972.938						12
13					972.739	972.876	972.937	972.832					13
14					972.737	972.880	972.930	972.831	972.822				14
15					972.740	972.881	972.925	972.830	972.821				15
16					972.741	972.881	972.924	972.837	972.821				16
17					972.740	972.881	972.922	972.836	972.833				17
18					972.744	972.879	972.916	972.836	972.837				18
19					972.749		972.910	972.831					19
20					972.749	972.879	972.908	972.830					20
21					972.752	972.877	972.903	972.830					21
22					972.759	972.877	972.900	972.831					22
23					972.764	972.873	972.900		972.830				23
24					972.768	972.873	972.899		972.829				24
25					972.780	972.876	972.897		972.826				25
26					972.785	972.876	972.897		972.823				26
27					972.786	972.875	972.887	972.838	972.817				27
28					972.784	972.871	972.884		972.817				28
29					972.780	972.869	972.882		972.813				29
30					972.779	972.867	972.882						30
31					972.786		972.881	972.835					31
TOT	972.695				22373.382	26266.774	28214.562	21402.600	19456.543	972.800			TOT
MEAN	972.695x				972.756x	972.843x	972.916x	972.845x	972.827x	972.800x			MEAN
MAX	972.695				972.786	972.881	972.947	972.880	972.837	972.800			MAX
MIN	972.695				972.728	972.787	972.881	972.830	972.813	972.800			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 972.947 Metres on JUL 8
Minimum Observed Daily Water Level: 972.695 Metres on JAN 4

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 973.234 Metres on 1982.10.09
Minimum Observed Daily Water Level: 972.473 Metres on 1989.01.10

Location: LSD SE Sec. 08 Tp. 053 Rge. 19 W5
Latitude: 53 34' Longitude: 116 46'

From Marboro turn-off, 2.6 km E on Hwy #16, 0.2 km N, ~0.7 km W to green lake side cabin. Cabin ~0.1 km E of Recreation Area.

Gauge Type: Outside Staff Gauge.
Period of Record: 1969-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1971. Geodetic Elevation revised 1983.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	MINK LAKE NEAR CARVEL CORNER
STATION NUMBER:	05DE904
LOCATION:	52-02-W5 - 6.4 km South of the junction of Highway #16 West and 43 North.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1968 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	**YES**
REMARKS:	Geodetic elevation revised in 1984. Subtract 0.054 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MINK LAKE NEAR CARVEL CORNER

STATION NO. 05DE904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					736.577								11
12							736.688						12
13													13
14													14
15													15
16	736.435												16
17													17
18										736.501			18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 736.688 METRES ON JUL 12

MINIMUM OBSERVED DAILY WATER LEVEL, 736.435 METRES ON JAN 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 736.745 METRES ON JUL 12/83
MIN. OBSERVED WATER LEVEL, 736.007 METRES ON OCT 16/84

LAKE - STATION DESCRIPTION

STATION NAME:	MINNIE LAKE NEAR GLENDON
STATION NUMBER:	06AA916
LOCATION:	61-08-W4 - Pumphouse at South end of Minnie Lake just West of provincial campsite.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1981 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MINNIE LAKE NEAR GLENDON

STATION NO. 06AA916

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						553.006	552.934	552.951	552.897				1
2						553.006	552.934	552.931	552.898				2
3						553.005	552.999			552.843			3
4						552.999	552.993	552.929	552.893				4
5						552.995	552.992	552.924					5
6						552.991	552.992	552.919	552.888				6
7						552.978	552.992	552.919	552.883				7
8						552.977	552.991						8
9						552.977		552.917	552.878				9
10						552.995	552.993						10
11						552.997	552.992	552.909	552.878				11
12				552.999		552.997	552.992	552.894					12
13						553.012	552.987	552.894	552.878				13
14						552.996	552.977						14
15						552.997	552.979	552.891	552.880				15
16					553.043	552.998	552.978	552.894	552.883				16
17					553.043	552.996	552.978	552.897	552.883				17
18						552.996	552.973	552.899					18
19					553.041	552.995	552.971						19
20						552.994		552.899	552.878				20
21					553.041	552.992	552.931						21
22						552.985	552.901	552.897					22
23					553.041	552.977	552.900	552.889	552.876				23
24					553.041	552.976	552.899						24
25						552.965		552.874	552.868				25
26					553.039	552.964	552.889						26
27						552.959	552.876	552.869	552.868				27
28					553.034	552.954							28
29						552.949	552.869	552.869	552.865				29
30	552.913				553.029	552.938		552.889	552.848				30
31					553.019		552.904	552.894					31
TOTAL						16589.566							TOTAL
MEAN						552.986							MEAN
MAX						553.012							MAX
MIN						552.938							MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 553.043 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 552.843 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 554.577 METRES ON APR 28/81
MIN. OBSERVED WATER LEVEL, 552.843 METRES ON OCT 03/90

LAKE - STATION DESCRIPTION

STATION NAME: MINNOW LAKE NEAR EDSON

STATION NUMBER: 07AG903

LOCATION: 50-14-W5 - From Edson, 22.4 km East on Highway #16, 23.2 km South to Minnow Lake recreation area.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1969-1971; 1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: A correction of +0.130 m must be applied to data prior to 1983.
Expanded to Staff Gauge 1981.
Geodetic Elevation revised 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Minnow Lake near Edson

Station No. 07AG903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						991.670	991.530		991.491				1
2						991.666	991.532						2
3							991.590	991.514		991.439*			3
4						991.664		991.510					4
5	991.603*					991.682		991.508					5
6							991.672	991.506					6
7							991.688	991.500					7
8						991.684	991.684						8
9					991.603								9
10						991.672	991.670	991.488	991.471				10
11						991.690	991.660*	991.486					11
12					991.604	991.736		991.484					12
13					991.604		991.642	991.484					13
14					991.602		991.630	991.482					14
15					991.600		991.614						15
16						991.706	991.610	991.484					16
17						991.692	991.598	991.482					17
18					991.596	991.670		991.482	991.481				18
19						991.658		991.480					19
20							991.558	991.478					20
21					991.626		991.550						21
22					991.636	991.608	991.540						22
23						991.598	991.532						23
24						991.590	991.554	991.471					24
25					991.658	991.586		991.471					25
26					991.660	991.570		991.473					26
27					991.660		991.542	991.471					27
28					991.658		991.540	991.469					28
29					991.656	991.542	991.538						29
30						991.540	991.534						30
31							991.528	991.493					31
TOT	991.603				12891.163	18841.224	22806.536	20821.216	2974.443	991.439			TOT
MEAN	991.603x				991.628x	991.643x	991.589x	991.486x	991.481x	991.439x			MEAN
MAX	991.603				991.660	991.736	991.688	991.514	991.491	991.439			MAX
MIN	991.603				991.596	991.540	991.528	991.469	991.471	991.439			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 991.736 Metres on JUN 12
Minimum Observed Daily Water Level: 991.439 Metres on OCT 3

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 991.805 Metres on 1986.07.26
Minimum Observed Daily Water Level: 990.073 Metres on 1970.05.08

Location: LSD NW Sec. 31 Tp. 050 Rge. 14 W5
Latitude: 53 22'   Longitude: 116 03'

From Edson, 22.4 km E on Hwy. #16, 23.2 km S to Minnow Lake recreation area.

Gauge Type: Outside Staff Gauge.
Period of Record: 1969-1990
Hydrographic Survey Map Available? NO
Expanded to staff gauge 81-05. Geodetic Elevation revised 1983.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: MISSAWAWI LAKE NEAR VENICE

STATION NUMBER: 06AA912

LOCATION: 66-15-W4 - At government campsite, 1.2 km Northeast of Venice.

GAUGE TYPE: None. Level established by surveying .

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MISSAWAWI LAKE NEAR VENICE

STATION NO. 06AA912

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										567.581			1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14					567.870								14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29	567.780												29
30							567.729						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 567.870 METRES ON MAY 14

MINIMUM OBSERVED DAILY WATER LEVEL, 567.581 METRES ON OCT 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 568.985 METRES ON OCT 06/75
MIN. OBSERVED WATER LEVEL, 567.581 METRES ON OCT 01/90

LAKE - STATION DESCRIPTION

STATION NAME: MITSUE LAKE NEAR SLAVE LAKE

STATION NUMBER: 07BK901

LOCATION: 72-04-W5 - At lands and forests float plane base on North side of Mitsue Lake.

GAUGE TYPE: None. Level established by surveying .

PERIOD OF RECORD: 1970 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation verified in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MITSUE LAKE NEAR SLAVE LAKE

STATION NO. 07BK901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					578.856								8
9													9
10							578.884						10
11										578.625			11
12													12
13													13
14													14
15													15
16													16
17	578.750												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 578.884 METRES ON JUL 10

MINIMUM OBSERVED DAILY WATER LEVEL, 578.625 METRES ON OCT 11
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 579.332 METRES ON JUL 08/88
MIN. OBSERVED WATER LEVEL, 577.186 METRES ON OCT 20/72

LAKE - STATION DESCRIPTION

STATION NAME: MONTAGNEUSE (STONEY) LAKE NEAR HINES CREEK

STATION NUMBER: 07FD920

LOCATION: 86-03-W6 - From Highway #64, 0.5 km East on Secondary #685, 9.7 km North, 1.6 km East, 23.7 km North to AFS recreation area.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1982 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is an Alberta Environment control structure on this lake (Stoney Lake Project) constructed in 1977. Geodetic elevation established 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Montagneuse (Stoney) Lake near Hines Creek

Station No. 07FD920

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	817.205*												8
9													9
10													10
11													11
12						817.515							12
13							817.263	817.164	817.168				13
14					817.279								14
15													15
16							817.255*						16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24									817.108*				24
25													25
26													26
27							817.262						27
28					817.413			817.166					28
29						817.358							29
30													30
31													31
TOT	817.205				1634.692	1634.873	2451.780	1634.330	1634.276				TOT
MEAN	817.205x				817.346x	817.437x	817.260x	817.165x	817.138x				MEAN
MAX	817.205				817.413	817.515	817.263	817.166	817.168				MAX
MIN	817.205				817.279	817.358	817.255	817.164	817.108				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 817.515 Metres on JUN 12
Minimum Observed Daily Water Level: 817.108 Metres on SEP 24

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 817.515 Metres on 1990.06.12
Minimum Observed Daily Water Level: 817.097 Metres on 1986.10.06

Location: LSD NW Sec. 31 Tp. 086 Rge. 03 W6
Latitude: 56 30' Longitude: 118 28'

From Hwy #64, 0.5 km E on Sec #685, 9.7 km N, 1.6 km E, 23.7 km N to AFS campground.

Gauge Type: Outside Staff Gauge.
Period of Record: 1982-1990
Hydrographic Survey Map Available? NO
Water level controlled by Alberta Environment structure (Stoney Lake Project), 1977. Geodetic Elevation established 1983.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	MOONSHINE LAKE AT MOONSHINE LAKE PROVINCIAL PARK
STATION NUMBER:	07FD905
LOCATION:	79-08-W6 - From Highway #49, 4.8 km North on Secondary #725, West through park to structure on dam.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1978 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Forestry, Lands and Wildlife control structure on this lake built in 1959.
Geodetic Elevation confirmed 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Moonshine Lake at Moonshine Lake Provincial Park Station No. 07FD905

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1							718.509						1
2						718.559			718.324				2
3						718.516	718.521	718.432					3
4						718.410	718.514	718.427					4
5						718.440	718.514	718.426	718.322				5
6							718.515						6
7								718.405					7
8						718.482	718.523		718.318				8
9						718.513							9
10						718.521	718.518						10
11						718.584	718.511						11
12						718.707	718.518*						12
13						718.718	718.500						13
14						718.689	718.499	718.368					14
15							718.494	718.367					15
16						718.585				718.257*			16
17													17
18						718.472		718.366					18
19						718.490	718.502	718.362					19
20							718.497						20
21						718.504	718.495	718.355					21
22	718.635*					718.507	718.491	718.355					22
23					718.540	718.511		718.349					23
24						718.506		718.342					24
25					718.573	718.511	718.480	718.342					25
26					718.524	718.516	718.477	718.338					26
27					718.495	718.516	718.471						27
28					718.486	718.517	718.462						28
29						718.516		718.335					29
30					718.539	718.512	718.453	718.331					30
31					718.625			718.327					31
TOT	718.635				5029.782	17244.802	15088.464	12212.227	2154.964	718.257			TOT
MEAN	718.635x				718.540x	718.533x	718.498x	718.366x	718.321x	718.257x			MEAN
MAX	718.635				718.625	718.718	718.523	718.432	718.324	718.257			MAX
MIN	718.635				718.486	718.410	718.453	718.327	718.318	718.257			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 718.718 Metres on JUN 13
Minimum Observed Daily Water Level: 718.257 Metres on OCT 16

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 718.718 Metres on 1990.06.13
Minimum Observed Daily Water Level: 717.697 Metres on 1980.08.22

Location: LSD SW Sec. 32 Tp. 079 Rge. 08 W6
Latitude: 55°53' " Longitude: 119°14' "

From Hwy. #49, 4.8 km N on Sec. #725, W through park to boat launch. Station at flow control structure.

Gauge Type: Outside Staff Gauge.
Period of Record: 1978-1990
Hydrographic Survey Map Available? NO
There is a Forestry, Land and Wildlife control structure, constructed 1959. Geodetic Elevation verified 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	MOOSE LAKE NEAR BONNYVILLE
STATION NUMBER:	06AC911
LOCATION:	61-06-W4 - At Moose Lake pumping station, 6.4 km West of Bonnyville.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1950; 1956 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Geodetic Elevation verified April 1978. A rock filled timber crib weir was constructed in 1949. The Ducks Unlimited Control Structure has been rebuilt by Alberta Environment in 1985, and is no longer a Ducks Unlimited control.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MOOSE LAKE NEAR BONNYVILLE

STATION NO. 06AC911

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						532.771	532.718	532.696	532.630	532.567	532.519		1
2						532.769	532.720	532.694	532.635	532.561	532.517		2
3						532.767	532.723	532.690	532.633	532.562	532.517		3
4						532.763	532.753	532.686	532.629	532.553			4
5						532.759	532.753	532.682	532.627	532.549			5
6						532.755	532.749	532.678	532.625	532.547			6
7						532.751	532.749	532.673	532.623	532.545			7
8						532.747	532.747	532.669	532.619	532.543			8
9						532.763	532.745	532.665	532.617	532.541			9
10						532.765	532.761	532.661	532.617	532.537			10
11						532.769	532.763	532.659	532.615	532.535			11
12						532.769	532.759	532.655	532.613	532.533			12
13						532.771	532.755	532.651	532.619	532.531			13
14						532.768	532.753	532.649	532.622	532.529			14
15						532.764	532.749	532.647	532.618	532.527			15
16					532.774	532.760	532.745	532.649	532.616	532.531			16
17					532.774	532.756	532.743	532.647	532.614	532.533			17
18					532.778	532.752	532.739	532.647	532.612	532.533			18
19					532.780	532.748	532.733	532.645	532.610	532.531			19
20					532.782	532.744	532.729	532.642	532.608	532.531			20
21					532.784	532.740	532.725	532.640	532.604	532.529			21
22					532.784	532.736	532.720	532.636	532.600	532.529			22
23					532.786	532.732	532.716	532.632	532.596	532.527			23
24					532.786	532.728	532.714	532.630	532.592	532.527			24
25					532.784	532.724	532.710	532.628	532.590	532.525			25
26					532.783	532.720	532.708	532.626	532.588	532.525			26
27					532.781	532.724	532.710	532.624	532.583	532.523			27
28					532.779	532.722	532.712	532.620	532.579	532.523			28
29					532.777	532.720	532.708	532.618	532.575	532.521			29
30					532.775	532.718	532.706	532.616	532.571	532.521			30
31					532.773		532.702	532.620		532.519			31
TOTAL						15982.475	16514.717	16512.175	15978.280	16508.588			TOTAL
MEAN						532.749	532.733	532.651	532.609	532.535			MEAN
MAX						532.771	532.763	532.696	532.635	532.567			MAX
MIN						532.718	532.702	532.616	532.571	532.519			MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 532.786 METRES ON MAY 23

MINIMUM OBSERVED DAILY WATER LEVEL, 532.517 METRES ON NOV 2
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 534.101 METRES ON MAY 24/66
MIN. OBSERVED WATER LEVEL, 532.487 METRES ON OCT 30/89

LAKE - STATION DESCRIPTION

STATION NAME:	MUIR LAKE NEAR SPRUCE GROVE
STATION NUMBER:	05EA913
LOCATION:	54-27-W4 - North side of Muir Lake, 3.5 km West and 9.3 km North of Spruce Grove.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1984. Subtract 0.285 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

MUIR LAKE NEAR SPRUCE GROVE

STATION NO. 05EA913

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					730.098								11
12							730.136			729.949			12
13													13
14													14
15													15
16	730.015												16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 730.136 METRES ON JUL 12

MINIMUM OBSERVED DAILY WATER LEVEL, 729.949 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 730.833 METRES ON JUL 27/74
MIN. OBSERVED WATER LEVEL, 728.809 METRES ON OCT 21/69

LAKE - STATION DESCRIPTION

STATION NAME:	MURDOCK LAKE NEAR DEADWOOD
STATION NUMBER:	07HC902
LOCATION:	89-23-W5 - From Highway #35, 3.2 km East on Secondary #690, 3.4 km South.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1980 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure (Deadwood Lake Project) on this lake constructed in 1986.
Expanded to Staff Gauge 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Murdock Lake near Deadwood

Station No. 07HC902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1							587.282		587.074				1
2						587.209							2
3						587.205							3
4						587.203	587.268						4
5						587.201							5
6						587.195		587.123					6
7						587.185		587.107					7
8						587.205		587.110					8
9	587.174*					587.193		587.110					9
10								587.108	587.054				10
11									587.054				11
12						587.363			587.054				12
13						587.451		587.106					13
14						587.433		587.104	587.050				14
15					587.260*	587.407		587.104	587.051				15
16					587.257	587.384		587.105					16
17					587.257		587.216*	587.105	587.048				17
18								587.103	587.048				18
19						587.312			587.043				19
20						587.302		587.104	587.041				20
21					587.237	587.286		587.104					21
22					587.237	587.278							22
23					587.219								23
24					587.219			587.105					24
25					587.233	587.240		587.090	587.016*				25
26					587.233								26
27						587.248		587.087					27
28					587.219	587.248		587.077					28
29						587.240		587.077					29
30						587.242							30
31					587.207			587.074					31
TOT	587.174				6459.578	12920.030	1761.766	11154.903	6457.533				TOT
MEAN	587.174x				587.234x	587.274x	587.255x	587.100x	587.048x				MEAN
MAX	587.174				587.260	587.451	587.282	587.123	587.074				MAX
MIN	587.174				587.207	587.185	587.216	587.074	587.016				MIN

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 587.451 Metres on JUN 13
Minimum Observed Daily Water Level: 587.016 Metres on SEP 25

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 587.889 Metres on 1984.07.18
Minimum Observed Daily Water Level: 586.980 Metres on 1987.10.07

Location: LSD NE Sec. 09 Tp. 089 Rge. 23 W5
Latitude: 56 43' Longitude: 117 35'

From Hwy. #35, 3.2 km E on Sec #690, 3.4 km S on gravel road.

Gauge Type: Outside Staff Gauge.
Period of Record: 1980-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure (Deadwood Lake Project) constructed in 1986. Expanded to staff gauge in 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	MUSREAU LAKE NEAR GRANDE PRAIRIE
STATION NUMBER:	07GB901
LOCATION:	64-05-W6 - South from Grande Prairie on Highway #40 approximately 60 km, then East on access road to boat launch adjacent to AFS campsite.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1986 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Add 773.849 m to 1986 data to convert to Geodetic elevation. Corrected data available from Grande Prairie office. Geodetic Elevation established 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Musreau Lake near Grande Prairie

Station No. 07GB901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						871.316	871.012			870.658*			1
2													2
3	870.857*						871.007						3
4													4
5							870.977						5
6							870.972						6
7													7
8					870.971*		870.952						8
9						871.192	870.950*						9
10							870.947						10
11													11
12													12
13							870.907						13
14							870.887						14
15							870.862						15
16							870.807						16
17							870.822						17
18													18
19													19
20					871.081								20
21					871.092		870.802						21
22					871.090		870.777						22
23						871.352							23
24						871.292	870.762						24
25					871.172		870.756						25
26						871.222	870.752						26
27													27
28													28
29							870.748						29
30						871.062	870.745						30
31					871.246		870.751						31
TOT	870.857				5226.652	5227.436	17417.195			870.658			TOT
MEAN	870.857x				871.109x	871.239x	870.860x			870.658x			MEAN
MAX	870.857				871.246	871.352	871.012			870.658			MAX
MIN	870.857				870.971	871.062	870.745			870.658			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month - Actual Surveyed Water Level
I - Ice Level E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 871.352 Metres on JUN 23
Minimum Observed Daily Water Level: 870.658 Metres on OCT 1

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 871.907 Metres on 1987.08.06
Minimum Observed Daily Water Level: 870.566 Metres on 1989.01.09

Location: LSD NW Sec. 24 Tp. 064 Rge. 05 W6
Latitude: 54 33' Longitude: 118 37'

From Grande Prairie, S on Hwy #40 ~60 km to Musreau Lake sign, then E on access road to boat launch adjacent to A.F.S. campsite.

Gauge Type: Outside Staff Gauge.
Period of Record: 1986-1990
Hydrographic Survey Map Available? NO
Geodetic Elevation established 1987.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	NAKAMUN LAKE NEAR ONOWAY	
STATION NUMBER:	07BB906	
LOCATION:	56-02-W5 -	South side of Nakamun Lake, 20.9 km North and 2.4 km West of Onoway.
GAUGE TYPE:	None. Level established by surveying.	
PERIOD OF RECORD:	1968 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation verified in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

NAKAMUN LAKE NEAR ONOWAY

STATION NO. 07BB906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1							682.403				682.410		1
2													2
3						682.431		682.532					3
4											682.410		4
5							682.603						5
6							682.613						6
7							682.613			682.450			7
8							682.623						8
9									682.476				9
10					682.449	682.412		682.512					10
11							682.617			682.445			11
12							682.618			682.442			12
13					682.440			682.502		682.445			13
14													14
15							682.598		682.471				15
16						682.412							16
17													17
18													18
19	682.223							682.497					19
20					682.441		682.583						20
21										682.435			21
22									682.471				22
23													23
24						682.412							24
25								682.477	682.471				25
26													26
27										682.430			27
28													28
29							682.552						29
30						682.402			682.450				30
31					682.431								31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 682.623 METRES ON JUL 8

MINIMUM OBSERVED DAILY WATER LEVEL, 682.223 METRES ON JAN 19
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 683.033 METRES ON JUL 19/74
MIN. OBSERVED WATER LEVEL, 682.058 METRES ON SEP 13/68

LAKE - STATION DESCRIPTION

STATION NAME: NARROW LAKE NEAR ATHABASCA

STATION NUMBER: 07BE911

LOCATION: 65-24-W4 - 13.2 km West, 3.3 km North, 3.3 km West and 0.5 km North of the junction of Highway #2 and Secondary #663.

GAUGE TYPE: Water level recorder.

PERIOD OF RECORD: 1983 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

NARROW LAKE NEAR ATHABASCA

STATION NO. 07BE911

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1					0.729 E	0.679	0.671	0.733	0.680	0.634			1
2					0.729 E	0.674	0.674	0.727	0.678	0.630			2
3					0.729 A	0.672	0.722	0.721	0.676	0.630			3
4					0.731	0.670	0.748	0.717	0.672	0.628			4
5					0.732	0.672	0.751	0.713	0.672	0.629			5
6					0.730	0.672	0.754	0.709	0.676	0.629			6
7					0.732	0.673	0.762	0.704	0.673	0.626			7
8					0.737	0.674	0.762	0.700	0.673	0.625			8
9					0.734	0.674	0.761	0.696	0.672	0.624			9
10					0.731	0.674	0.759	0.694	0.668	0.627			10
11					0.730	0.687	0.757	0.690	0.668	0.627			11
12					0.726	0.689	0.754	0.689	0.679	0.625			12
13					0.723	0.688	0.749	0.685	0.676	0.624			13
14					0.722	0.686	0.741	0.682	0.674	0.625			14
15					0.719	0.684	0.736	0.682	0.672	0.623			15
16					0.715	0.683	0.737	0.688	0.671	0.621			16
17					0.712	0.701	0.743	0.694	0.668	0.620			17
18					0.709	0.700	0.741	0.692	0.665	0.619			18
19					0.709	0.697	0.739	0.692	0.662	0.617			19
20					0.709	0.696	0.737	0.690	0.661	0.615			20
21					0.705	0.694	0.735	0.688	0.658	0.614			21
22					0.702	0.692	0.733	0.691	0.655	0.612			22
23					0.701	0.688	0.734	0.690	0.654	0.611			23
24					0.707	0.685	0.741	0.684	0.652	0.610			24
25					0.706	0.682	0.743	0.682	0.650	0.610			25
26					0.702	0.679	0.744	0.680	0.647	0.615			26
27					0.698	0.680	0.745	0.677	0.644	0.616			27
28					0.696	0.678	0.743	0.673	0.641	0.615			28
29					0.693	0.676	0.743	0.669	0.638	0.615 A			29
30					0.690	0.674	0.741	0.671	0.635	0.615 E			30
31					0.684		0.739	0.683		0.615 E			31
TOTAL					22.172	20.473	22.939	21.486	19.910	19.246			TOTAL
MEAN					0.715	0.682	0.740	0.693	0.664	0.621			MEAN
MAX					0.737	0.701	0.762	0.733	0.680	0.634			MAX
MIN					0.684	0.670	0.671	0.669	0.635	0.610			MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY WATER LEVEL, 0.762 METRES ON JUL 7

MINIMUM DAILY WATER LEVEL, 0.610 METRES ON OCT 24
MAXIMUM INSTANTANEOUS WATER LEVEL, METRES AT
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 0.971 METRES ON JUL 20/86
MIN. OBSERVED WATER LEVEL, 0.421 METRES ON OCT 31/85

A - MANUAL GAUGE
E - ESTIMATED

LAKE - STATION DESCRIPTION

STATION NAME:	NORTH BUCK LAKE NEAR CASLAN
STATION NUMBER:	06AA913
LOCATION:	65-17-W4 - East side of North Buck Lake, 4 km North and 0.8 km West of Caslan.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

NORTH BUCK LAKE NEAR CASLAN

STATION NO. 06AA913

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						608.628	608.557	608.534	608.464	608.405			1
2						608.629			608.464				2
3							608.623	608.534					3
4								608.534					4
5								608.534					5
6							608.621	608.519					6
7							608.618	608.503					7
8							608.618	608.498					8
9								608.493					9
10							608.617	608.493					10
11							608.619	608.493					11
12							608.614						12
13						608.579	608.609						13
14					608.644	608.578		608.488					14
15						608.573							15
16								608.483					16
17								608.483					17
18							608.584	608.483					18
19							608.574	608.483					19
20							608.569	608.483					20
21							608.554						21
22						608.509	608.554						22
23						608.567							23
24						608.567	608.562	608.487					24
25					608.626		608.559	608.487					25
26					608.628	608.558	608.559						26
27					608.628		608.559						27
28					608.628	608.539	608.559						28
29	608.576				608.626	608.559							29
30						608.559	608.536	608.467					30
31							608.530	608.466					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 608.644 METRES ON MAY 14

MINIMUM OBSERVED DAILY WATER LEVEL, 608.405 METRES ON OCT 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 609.213 METRES ON SEP 12/78
MIN. OBSERVED WATER LEVEL, 608.405 METRES ON OCT 01/90

LAKE - STATION DESCRIPTION

STATION NAME: OBED LAKE NEAR HINTON

STATION NUMBER: 07AD903

LOCATION: 53-22-W5 - From Obed, approx. 6.5 km East on Highway #16 and 0.5 km Northeast to lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1966 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: A benchmark elevation discrepancy was corrected in 1983.
Geodetic Elevation revised in 1983 and in 1989.
Hydrographic Survey 1976.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Obed Lake near Hinton

Station No. 07AD903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						1054.958	1054.727		1054.699				1
2						1054.954				1054.712*			2
3						1054.953		1054.687	1054.697				3
4	1054.873*					1054.964							4
5						1054.938		1054.679					5
6							1054.924						6
7						1054.939	1054.959						7
8							1054.960						8
9					1054.874*								9
10					1054.874	1054.901	1054.932*	1054.661					10
11					1054.876	1054.887							11
12							1054.901	1054.653					12
13							1054.874						13
14						1054.893	1054.849						14
15						1054.883	1054.837						15
16						1054.872	1054.835	1054.662					16
17					1054.906	1054.865		1054.676					17
18					1054.915	1054.855		1054.676					18
19					1054.902		1054.780	1054.676					19
20					1054.910		1054.772						20
21					1054.921	1054.817	1054.764						21
22						1054.797	1054.762						22
23						1054.786		1054.682					23
24						1054.778							24
25					1054.922			1054.680					25
26					1054.934								26
27					1054.945		1054.720	1054.690					27
28					1054.956	1054.744							28
29						1054.737	1054.708						29
30						1054.731							30
31					1054.966			1054.701					31
TOT	1054.873				13713.901	21097.252	16877.304	12656.123	2109.396	1054.712			TOT
MEAN	1054.873x				1054.915x	1054.863x	1054.832x	1054.677x	1054.698x	1054.712x			MEAN
MAX	1054.873				1054.966	1054.964	1054.960	1054.701	1054.699	1054.712			MAX
MIN	1054.873				1054.874	1054.731	1054.708	1054.653	1054.697	1054.712			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
- Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1054.966 Metres on MAY 31
Minimum Observed Daily Water Level:1054.653 Metres on AUG 12

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1055.164 Metres on 1982.07.16
Minimum Observed Daily Water Level:1054.317 Metres on 1975.01.16

Location: LSD NE Sec. 03 Tp. 053 Rge. 22 W5
Latitude: 53 33' Longitude: 117 09'

From Obed, ~6.5 km E on Hwy #16, 0.5 km NE to SW side of lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1966-1990
Hydrographic Survey Map Available? YES
Geodetic Elevation revised 1983 and 1989. Hydrographic Survey 1976.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: OLDMAN LAKE NEAR GLENEVIS

STATION NUMBER: 07BB907

LOCATION: 56-04-W5 - 11.3 km North and approximately 1.6 km West of Glenevis.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1969-1972; 1974 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited Control Structure on this lake. A steel sheet pile weir was constructed in 1978. (F.S.L. = 692.72 m).
Geodetic elevation revised in 1984. Subtract 0.121 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

OLDMAN LAKE NEAR GLENEVIS

STATION NO. 07BB907

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					692.677								10
11							692.781						11
12										692.615			12
13													13
14													14
15													15
16													16
17													17
18													18
19	692.600												19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 692.781 METRES ON JUL 11

MINIMUM OBSERVED DAILY WATER LEVEL, 692.600 METRES ON JAN 19
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 693.368 METRES ON JUL 24/74
MIN. OBSERVED WATER LEVEL, 692.431 METRES ON APR 25/88

LAKE - STATION DESCRIPTION

STATION NAME: OLIVER LAKE NEAR NEW SAREPTA

STATION NUMBER: 05EB908

LOCATION: 50-21-W4 - 04 km North and 08 km East of New Sarepta.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation revised in 1989. Subtract 0.262 m from published data prior to 1989.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

OLIVER LAKE NEAR NEW SAREPTA

STATION NO. 05EB908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7					757.101								7
8													8
9													9
10													10
11													11
12										756.984			12
13													13
14													14
15													15
16													16
17													17
18							757.183						18
19													19
20													20
21													21
22													22
23	757.012 B												23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 757.183 METRES ON JUL 18

MINIMUM OBSERVED DAILY WATER LEVEL, 756.984 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 757.183 METRES ON JUL 18/90
MIN. OBSERVED WATER LEVEL, 756.483 METRES ON APR 12/71

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: OUTPOST LAKE AT POLICE OUTPOST PARK

STATION NUMBER: 05AE902

LOCATION: 01-26-W4 - 11.3 km South of Beazer.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1976 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Parks and Recreation Control Structure on the Outlet of this lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

OUTPOST LAKE AT POLICE OUTPOST PARK

STATION NO. 05AE902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4				1377.717									4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21								1378.022					21
22													22
23													23
24													24
25													25
26						1378.102							26
27													27
28													28
29										1377.777			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1378.102 METRES ON JUN 26

MINIMUM OBSERVED DAILY WATER LEVEL, 1377.717 METRES ON APR 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1379.650 METRES ON JUL 01/77
MIN. OBSERVED WATER LEVEL, 1377.417 METRES ON NOV 16/88

LAKE - STATION DESCRIPTION

STATION NAME: PAKOWKI LAKE NEAR MEDICINE HAT

STATION NUMBER: 05AF902

LOCATION: 05-09-W4 - 10.5 km South of Etzikom.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1977 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: A Ducks Unlimited project.
Lake dry periods in 1987 and 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

PAKOWKI LAKE NEAR MEDICINE HAT

STATION NO. 05AF902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2				28.230									2
3													3
4													4
5						28.140							5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18										27.540			18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28								27.760					28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 28.230METRES ON .APR 2

MINIMUM OBSERVED DAILY WATER LEVEL, 27.540METRES ON .OCT 18
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 28.849 METRES ON MAY 02/79
MIN. OBSERVED LAKE DRY ON SEP 15/88

LAKE - STATION DESCRIPTION

STATION NAME:	PARK LAKE AT PROVINCIAL PARK
STATION NUMBER:	05AD902
LOCATION:	10-22-W4 - 17.7 km Northwest of Lethbridge at Park Lake Provincial Park
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

PARK LAKE AT PROVINCIAL PARK

STATION NO. 05AD902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12				940.161									12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22						940.801							22
23										940.151			23
24													24
25													25
26													26
27								941.151					27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 941.151 METRES ON AUG 27

MINIMUM OBSERVED DAILY WATER LEVEL, 940.151 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 941.329 METRES ON JUN 12/75
MIN. OBSERVED WATER LEVEL, 939.686 METRES ON MAY 09/85

LAKE - STATION DESCRIPTION

STATION NAME: PATRICIA LAKE NEAR JASPER

STATION NUMBER: 07AA901

LOCATION: 29-45-01-W6 - In Jasper near RC church, take Patricia/Pyramid Lake road to Patricia Lake Bungalos.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Patricia Lake near Jasper

Station No. 07AA901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1									98.346				1
2									98.345	98.296*			2
3									98.345				3
4									98.344				4
5									98.342				5
6									98.341				6
7									98.339				7
8									98.337				8
9									98.337				9
10							98.419*		98.336				10
11							98.425		98.336				11
12							98.426		98.334				12
13							98.426		98.333				13
14							98.426		98.332				14
15							98.429		98.331				15
16							98.428		98.330				16
17							98.429		98.328				17
18							98.429		98.325				18
19							98.427		98.325				19
20							98.426		98.324				20
21							98.423		98.322				21
22							98.420		98.321				22
23							98.419		98.320				23
24							98.418		98.319				24
25							98.417		98.318				25
26							98.417						26
27							98.416						27
28							98.415						28
29							98.414						29
30							98.413						30
31							98.411						31
TOT							2165.273		2458.310	98.296			TOT
MEAN							98.421x		98.332x	98.296x			MEAN
MAX							98.429		98.346	98.296			MAX
MIN							98.411		98.318	98.296			MIN

WATER LEVELS ARE REFERRED TO:
ASSUMED DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 98.429 Metres on JUL 15
Minimum Observed Daily Water Level: 98.296 Metres on OCT 2

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 98.429 Metres on 1990.07.15
Minimum Observed Daily Water Level: 98.296 Metres on 1990.10.02

Location: LSD 08 Sec. 29 Tp. 45 Rge. 01 W6
Latitude: 52°49'00" Longitude: 118°06'00"

In Jasper near RC church, take Patricia/Pyramid Lake road to Patricia Lake Bungalos.

Gauge Type: Outside Staff Gauge.
Period of Record: 1990-1990
Hydrographic Survey Map Available? NO
Contact Gregg Horne (Park Warden) @ 852-6155 regarding study of lake by Parks Canada.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: PEANUT LAKE NEAR BARRHEAD

STATION NUMBER: 07BB908

LOCATION: 58-03-W5 - North side of Peanut Lake, 11.3 km South and 3.2 km East of Barrhead.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified June 1986.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

PEANUT LAKE NEAR BARRHEAD

STATION NO. 07BB908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					641.448								9
10							641.442						10
11										641.306			11
12													12
13													13
14													14
15													15
16													16
17													17
18	641.376												18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 641.448 METRES ON MAY 9

MINIMUM OBSERVED DAILY WATER LEVEL, 641.306 METRES ON OCT 11
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 642.525 METRES ON JUL 19/74
MIN. OBSERVED WATER LEVEL, 641.306 METRES ON OCT 11/90

LAKE - STATION DESCRIPTION

STATION NAME: PIERRE GREYS LAKES (LOWER) NEAR MUSKEG

STATION NUMBER: 07GA902

LOCATION: 57-05-W6 - From Muskeg, 4.0 km Southeast on Highway #40,
0.8 km East to Macdonald day use area.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1970 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Hydrographic Survey 1968.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Pierre Greys Lakes (Lower) near Muskeg

Station No. 07GA902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1										1252.894*			1
2						1252.888							2
3	1252.905*												3
4													4
5													5
6													6
7						1252.861							7
8					1252.489*								8
9						1252.844	1253.070*						9
10						1252.843		1252.926					10
11													11
12													12
13							1252.968						13
14						1252.934	1252.962						14
15						1252.944	1252.944						15
16								1252.928					16
17					1252.855			1252.936					17
18													18
19							1252.917						19
20					1252.874		1252.923						20
21					1252.872	1252.884							21
22						1252.874							22
23													23
24						1252.863		1252.929					24
25					1252.874								25
26													26
27					1252.871		1252.997						27
28													28
29							1253.001						29
30						1252.879	1253.002						30
31													31
TOT	1252.905				7516.835	12528.814	11276.784	5011.719		1252.894			TOT
MEAN	1252.905x				1252.806x	1252.881x	1252.976x	1252.930x		1252.894x			MEAN
MAX	1252.905				1252.874	1252.944	1253.070	1252.936		1252.894			MAX
MIN	1252.905				1252.489	1252.843	1252.917	1252.926		1252.894			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level:1253.070 Metres on JUL 9
Minimum Observed Daily Water Level:1252.489 Metres on MAY 8

HISTORICAL SUMMARY
Maximum Observed Daily Water Level:1253.307 Metres on 1973.09.06
Minimum Observed Daily Water Level:1252.489 Metres on 1990.05.08

Location: LSD NW Sec. 12 Tp. 057 Rge. 05 W6
Latitude: 53 55' Longitude: 118 36'

Gauge Type: Outside Staff Gauge.
Period of Record: 1970-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1968.

From Muskeg, ~4 km SE on Hwy #40, 0.8 km E to SW corner of lake at MacDonald day use area.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: PIERRE GREYS LAKES (MIDDLE) NEAR MUSKEG

STATION NUMBER: 07GA903

LOCATION: 57-04-W6 - From Muskeg, 4.0 km Southeast on Highway #40, 2.6 km East to Desjarlais day use area.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1972 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Hydrographic Survey 1968.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Pierre Greys Lakes (Middle) near Muskeg

Station No. 07GA903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1										1259.512*			1
2						1259.259							2
3	1259.246*												3
4													4
5													5
6													6
7						1259.275							7
8					1259.211*								8
9						1259.278	1259.508*						9
10						1259.279		1259.527					10
11													11
12													12
13							1259.551						13
14						1259.381	1259.553						14
15						1259.385							15
16								1259.547					16
17					1259.227			1259.549					17
18													18
19							1259.594						19
20					1259.229		1259.588						20
21					1259.232	1259.434							21
22						1259.459							22
23													23
24						1259.467		1259.535					24
25					1259.238								25
26						1259.502							26
27					1259.239								27
28													28
29													29
30													30
31							1259.546*						31
TOT	1259.246				7555.376	12593.719	7557.340	5038.158		1259.512			TOT
MEAN	1259.246x				1259.229x	1259.372x	1259.557x	1259.540x		1259.512x			MEAN
MAX	1259.246				1259.239	1259.502	1259.594	1259.549		1259.512			MAX
MIN	1259.246				1259.211	1259.259	1259.508	1259.527		1259.512			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level:1259.594 Metres on JUL 19
Minimum Observed Daily Water Level:1259.211 Metres on MAY 8

HISTORICAL SUMMARY
Maximum Observed Daily Water Level:1259.594 Metres on 1990.07.19
Minimum Observed Daily Water Level:1259.156 Metres on 1988.05.23

Location: LSD NW Sec. 06 Tp. 057 Rge. 04 W6
Latitude: 53 54' Longitude: 118 35'

From Muskeg, ~4 km SE on Hwy #40, 2.6 km E to E side of lake at DesJarlais day use area.

Gauge Type: Outside Staff Gauge.
Period of Record: 1972-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1968.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: PIERRE GREYS LAKES (UPPER) NEAR MUSKEG

STATION NUMBER: 07GA904

LOCATION: 57-04-W6 - From Muskeg, 4.0 km Southeast on Highway #40, 2.4 km East to Joachim area next to site #7.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Hydrographic Survey 1971.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Pierre Greys Lakes (Upper) near Muskeg

Station No. 07GA904

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1										1263.221*			1
2						1263.192							2
3	1263.147*												3
4													4
5													5
6													6
7						1263.196							7
8					1263.101*								8
9						1263.193	1263.359*						9
10						1263.192		1263.266					10
11													11
12													12
13							1263.349						13
14						1263.290	1263.344						14
15						1263.297							15
16								1263.269					16
17					1263.130			1263.277					17
18													18
19							1263.333						19
20					1263.143		1263.325						20
21					1263.149	1263.298							21
22						1263.297							22
23													23
24						1263.291		1263.260					24
25					1263.158								25
26													26
27					1263.158								27
28													28
29													29
30													30
31							1263.295						31
TOT	1263.147				7578.839	11369.246	7580.005	5053.072		1263.221			TOT
MEAN	1263.147x				1263.140x	1263.250x	1263.334x	1263.268x		1263.221x			MEAN
MAX	1263.147				1263.158	1263.298	1263.359	1263.277		1263.221			MAX
MIN	1263.147				1263.101	1263.192	1263.295	1263.260		1263.221			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level:1263.359 Metres on JUL 9
Minimum Observed Daily Water Level:1263.101 Metres on MAY 8

HISTORICAL SUMMARY
Maximum Observed Daily Water Level:1263.478 Metres on 1977.08.04
Minimum Observed Daily Water Level:1262.570 Metres on 1977.05.19

Location: LSD NW Sec. 06 Tp. 057 Rge. 04 W6
Latitude: 53 54'   Longitude: 118 34'

From Muskeg, ~4 km SE on Hwy #40, 2.4 km E to lake access next to site #7 in Joachim campground.

Gauge Type: Outside Staff Gauge.
Period of Record: 1971-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1971.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	PIGEON LAKE AT PROVINCIAL PARK
STATION NUMBER:	05FA908
LOCATION:	47-01-W5 - Provincial Park Dock on the West side of the lake.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1974 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

1. Alberta Environment operated "Pigeon Lake at Ma- Me-O Beach" 1969-1972. There are also on file unverified data for the period 1929-1969. Water levels at this site are slightly lower than levels at the Water Survey of Canada gauge due to the Outlet effect.
2. Water Survey of Canada operated 05FA009 and 05FA013, 1924-1931 and 1972 to date.
3. Geodetic Elevations verified 1985.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

PIGEON LAKE AT PROVINCIAL PARK

STATION NO. 05FA908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								850.496	850.356	850.175			1
2						850.277		850.496	850.356	850.195			2
3										850.165			3
4							850.626	850.476		850.195			4
5							850.626	850.476					5
6						850.297	850.651						6
7		850.052			850.281	850.297	850.636			850.175			7
8						850.291			850.310				8
9						850.287		850.466	850.306	850.175			9
10						850.287	850.630			850.165			10
11							850.630	850.466					11
12							850.626	850.456	850.286				12
13						850.327	850.620	850.456	850.285				13
14						850.347	850.606						14
15						850.342	850.606		850.275	850.165			15
16						850.337							16
17					850.253	850.336				850.175			17
18					850.242				850.275	850.155			18
19					850.242			850.426		850.155			19
20							850.576			850.155			20
21							850.566						21
22								850.396	850.249				22
23					850.249	850.332			850.249				23
24								850.374	850.229				24
25							850.546		850.229				25
26					850.267		850.546		850.225				26
27					850.267	850.316	850.555						27
28							850.546						28
29								850.356		850.133			29
30					850.277			850.356	850.195				30
31					850.277			850.362					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 850.651 METRES ON JUL 6

MINIMUM OBSERVED DAILY WATER LEVEL, 850.052 METRES ON FEB 7
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 850.653 METRES ON APR 30/81
MIN. OBSERVED WATER LEVEL, 849.630 METRES ON NOV 17/77

LAKE - STATION DESCRIPTION

STATION NAME:	PINE LAKE NEAR PINE LAKE
STATION NUMBER:	05CE902
LOCATION:	36-25-W4 - North side of Pine Lake, 23.3 km East and 12.9 km South of Red Deer.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1965 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Geodetic elevation revised in 1984. Add 0.206 m to published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

PINE LAKE NEAR PINE LAKE

STATION NO. 05CE902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						889.557	889.717	889.431	889.393				1
2						889.587	889.702	889.426	889.393				2
3					889.763	889.612	889.702	889.433	889.395				3
4					889.753	889.637	889.692	889.451	889.393				4
5					889.743	889.722		889.437	889.391				5
6					889.733	889.787	889.676	889.422	889.388				6
7					889.718	889.857	889.661	889.412	889.383				7
8					889.706	889.905	889.646	889.407	889.383				8
9					889.693	889.912	889.631	889.417	889.381				9
10					889.678	889.917	889.621	889.412	889.378				10
11					889.663		889.616	889.412					11
12					889.653	889.982	889.606	889.407	889.373				12
13					889.638	890.027	889.586	889.402	889.378				13
14					889.633	890.062	889.571	889.397					14
15					889.618	890.072	889.561	889.397					15
16					889.603	890.072	889.551	889.412					16
17					889.588	890.062	889.541	889.427		889.287			17
18					889.578	890.035	889.526	889.422	889.351				18
19					889.563	890.017	889.516	889.417					19
20					889.558	889.981	889.506	889.414	889.351				20
21					889.573	889.957	889.491	889.412					21
22					889.573	889.912	889.481	889.407					22
23					889.563	889.897	889.476	889.402	889.340	889.289			23
24					889.568	889.874	889.470	889.411					24
25						889.852	889.481	889.414					25
26					889.583	889.822	889.486	889.412	889.334				26
27					889.573	889.797	889.476	889.412					27
28					889.562	889.782	889.466	889.413	889.324				28
29					889.562	889.767	889.456	889.413					29
30					889.575	889.742	889.451	889.408	889.314				30
31	889.482				889.562		889.441	889.395					31
TOTAL								27571.854					TOTAL
MEAN								889.415					MEAN
MAX								889.451					MAX
MIN								889.395					MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 890.072 METRES ON JUN 15

MINIMUM OBSERVED DAILY WATER LEVEL, 889.287 METRES ON OCT 17
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 890.072 METRES ON JUN 15/90
MIN. OBSERVED WATER LEVEL, 888.768 METRES ON NOV 15/67

LAKE - STATION DESCRIPTION

STATION NAME:	PINEHURST LAKE NEAR LAC LA BICHE	
STATION NUMBER:	06AB901	
LOCATION:	65-10-W4 -	South side of Pinehurst Lake, 32.2 km East and 13.7 km South of Lac La Biche.
GAUGE TYPE:	None. Level established by surveying.	
PERIOD OF RECORD:	1968 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1984. Add 7.316 m to published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

PINEHURST LAKE NEAR LAC LA BICHE

STATION NO. 06AB901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2										598.630			2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16					598.808								16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30	598.714												30
31							598.786						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 598.808 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 598.630 METRES ON OCT 2
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 599.366 METRES ON SEP 01/71
MIN. OBSERVED WATER LEVEL, 598.529 METRES ON FEB 01/83

LAKE - STATION DESCRIPTION

STATION NAME: PRESTON LAKE NEAR DEMMITT

STATION NUMBER: 07GD904

LOCATION: SE 27-73-13-W6 - From Demmitt, 5 km Southeast on Highway #2, 9.6 km South, 5.5 km West, North to farmyard.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: **NO**

REMARKS: Geodetic elevation established in 1988.
There is a Ducks Unlimited control structure on this lake constructed in 1982. Data partially contributed by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Preston Lake near Demmitt

Station No. 07GD904

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						796.930	797.441	797.134	796.980	796.910			1
2						796.986	797.436	797.130	796.975	796.910			2
3						796.990	797.448	797.116	796.973	796.910			3
4				796.742		797.023	797.428	797.113	796.970	796.912			4
5						797.005	797.423	797.107	796.970	796.916			5
6						797.000	797.408	797.104	796.970	796.921			6
7						797.000	797.398	797.102	796.969	796.925			7
8						797.005	797.378	797.095	796.967	796.929			8
9						797.010	797.348	797.092	796.965	796.931			9
10					796.792	797.145	797.328	797.088	796.962	796.931			10
11						797.180	797.303	797.086	796.960	796.956			11
12						797.413		797.084	796.955	796.974			12
13								797.083	796.972	796.981			13
14						798.022		797.080	796.970	796.986	796.842		14
15						798.043*	797.284	797.079	796.967	796.929*			15
16						798.042	797.261	797.078	796.965	796.942			16
17						798.000	797.277	797.077	796.963				17
18						797.942	797.257	797.076	796.957				18
19						797.902	797.224	797.077	796.945				19
20						797.846	797.216	797.075	796.940				20
21						797.798	797.209	797.073	796.940				21
22						797.738	797.199	796.995	796.940				22
23	796.692*			796.742		797.698	797.194	796.995	796.937				23
24					796.824*	797.658	797.189	796.980	796.936				24
25					796.832	797.623	797.184	797.070	796.935	796.942			25
26					796.824	797.603	797.174	797.065	796.929				26
27					796.844	797.538	797.164	797.045	796.922				27
28					796.872	797.523	797.159	797.035	796.920				28
29					796.882	797.493	797.154	797.015	796.915				29
30					796.892	797.458	797.151*	796.998	796.911				30
31					796.918		797.139	796.987					31
TOT	796.692			1593.484	7171.680	23126.614	22323.774	24709.134	23908.580	13547.905	796.842		TOT
MEAN	796.692x			796.742x	796.853x	797.469x	797.278x	797.069	796.953	796.936x	796.842x		MEAN
MAX	796.692			796.742	796.918	798.043	797.448	797.134	796.980	796.986	796.842		MAX
MIN	796.692			796.742	796.792	796.930	797.139	796.980	796.911	796.910	796.842		MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 798.043 Metres on JUN 15
Minimum Observed Daily Water Level: 796.692 Metres on JAN 23

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 798.043 Metres on 1990.06.15
Minimum Observed Daily Water Level: 796.204 Metres on 1989.01.25

Location: LSD SE Sec. 27 Tp. 073 Rge. 13 W6
Latitude: 55 21'   Longitude: 119 54'

From Demmitt corner, 5 km SE on Hwy #2, 9.6 km S, ~5 km W, then W to Sudnik farm yard.

Gauge Type: Outside Staff Gauge.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited structure constructed in 1982. Ducks Unlimited monitor lake levels for ADOE from TBM 87-2.
Geodetic Elevation established 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	RAT LAKE NEAR DONNELLY
STATION NUMBER:	07GH905
LOCATION:	78-20-W5 - From Highway #2, 6.4 km East on Highway #49, 2 km North to lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1980 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Rat Lake near Donnelly

Station No. 07GE305

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11	616.229I												11
12													12
13													13
14													14
15													15
16													16
17					616.402*								17
18													18
19							616.349*						19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28									616.148*				28
29													29
30													30
31													31
TOT	616.229				616.402		616.349		616.148				TOT
MEAN	616.229x				616.402x		616.349x		616.148x				MEAN
MAX	616.229				616.402		616.349		616.148				MAX
MIN	616.229				616.402		616.349		616.148				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 616.402 Metres on MAY 17
Minimum Observed Daily Water Level: 616.148 Metres on SEP 28

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 616.590 Metres on 1986.05.22
Minimum Observed Daily Water Level: 616.024 Metres on 1981.10.15

Location: LSD NE Sec. 09 Tp. 078 Rge. 20 W5
Latitude: 55 45' Longitude: 117 02'

Gauge Type: None. Level Established by Surveying.
Period of Record: 1980-1990
Hydrographic Survey Map Available? NO

From Hwy #2 at Donnelly Corner, 6.4 km E on Hwy #49, 2 km N to lake. Or 6.4 km W of McLennan, 2 km N to lake.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: RED DEER LAKE NEAR FERINTOSH

STATION NUMBER: 05FA909

LOCATION: 44-12-W4 - 9.7 km East of Ferintosh.

GAUGE TYPE: None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.

PERIOD OF RECORD: 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified April 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

RED DEER LAKE NEAR FERINTOSH

STATION NO. 05FA909

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7					770.336								7
8													8
9													9
10													10
11													11
12										770.150			12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20							770.379						20
21													21
22													22
23	770.212												23
24							770.377						24
25													25
26													26
27													27
28													28
29													29
30								770.297					30
31							770.366						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 770.379 METRES ON JUL 20

MINIMUM OBSERVED DAILY WATER LEVEL, 770.150 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 771.592 METRES ON MAY 22/75
MIN. OBSERVED WATER LEVEL, 769.672 METRES ON NOV 10/67

LAKE - STATION DESCRIPTION

STATION NAME:	RIBSTONE LAKE NEAR WAINWRIGHT
STATION NUMBER:	05FD903
LOCATION:	44-05-W4 - 12.8 km East and 8.8 km South of Wainwright.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1983 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	There is a Ducks Unlimited Control Structure on this lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

RIBSTONE LAKE NEAR WAINWRIGHT

STATION NO. 05FD903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					644.958								9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17							645.020						17
18													18
19													19
20													20
21													21
22													22
23													23
24										644.405			24
25	644.970												25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 645.020 METRES ON JUL 17

MINIMUM OBSERVED DAILY WATER LEVEL, 644.405 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 645.313 METRES ON MAY 13/85
MIN. OBSERVED WATER LEVEL, 644.268 METRES ON OCT 12/83

LAKE - STATION DESCRIPTION

STATION NAME:	ROCK LAKE NEAR HINTON
STATION NUMBER:	07AC905
LOCATION:	52-02-W6 - From Highway #16, 39 km Northwest on Highway #40 and approximately 32 km West to ranger station on Northside of lake.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1968; 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation established in 1983.
Hydrographic Survey 1968.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Rock Lake near Hinton

Station No. 07AC905

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1							1387.698			1387.104*			1
2									1387.211				2
3	1386.934					1387.653		1387.361	1387.201				3
4								1387.361					4
5													5
6							1387.853						6
7							1387.903		1387.166				7
8					1387.061*	1387.603							8
9						1387.457	1387.823*		1387.161				9
10					1387.057	1387.457		1387.306	1387.165				10
11								1387.301					11
12								1387.301					12
13													13
14							1387.412	1387.291	1387.105				14
15					1387.037	1387.703	1387.412		1387.110				15
16													16
17						1387.753		1387.296					17
18													18
19					1387.057	1387.698		1387.291					19
20					1387.052		1387.412	1387.286					20
21								1387.286					21
22							1387.407						22
23					1387.262	1387.557	1387.402						23
24					1387.267								24
25						1387.557		1387.261					25
26						1387.557		1387.251					26
27							1387.402						27
28							1387.407	1387.236					28
29					1387.457		1387.407						29
30													30
31								1387.226					31
TOT	1386.934				11097.250	13875.995	16650.538	19422.054	9710.119	1387.104			TOT
MEAN	1386.934x				1387.156x	1387.600x	1387.545x	1387.290x	1387.160x	1387.104x			MEAN
MAX	1386.934				1387.457	1387.753	1387.903	1387.361	1387.211	1387.104			MAX
MIN	1386.934				1387.037	1387.457	1387.402	1387.226	1387.105	1387.104			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1387.903 Metres on JUL 7
Minimum Observed Daily Water Level:1386.934 Metres on JAN 3

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1387.903 Metres on 1990.07.07
Minimum Observed Daily Water Level:1386.923 Metres on 1987.02.10

Location: LSD NE Sec. 05 Tp. 052 Rge. 02 W6
Latitude: 53 28'   Longitude: 118 12'

From Hwy #16, ~39 km NW on Hwy #40, ~32 km WSW to ranger station on N side of lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1968-1990
Hydrographic Survey Map Available? YES
Geodetic elevation established, 1983. Hydrographic Survey 1968.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: ROSS LAKE NEAR MAGRATH

STATION NUMBER: 05AE903

LOCATION: 02-22-W4 - 27.4 km South and 8 km West of Magrath.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1979 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

ROSS LAKE NEAR MAGRATH

STATION NO. 05AE903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4				1319.078									4
5													5
6									1318.950				6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29						1319.210				1318.780			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1319.210 METRES ON JUN 29

MINIMUM OBSERVED DAILY WATER LEVEL, 1318.780 METRES ON OCT 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1323.143 METRES ON JUN 06/80
MIN. OBSERVED WATER LEVEL, 1318.780 METRES ON OCT 29/90

LAKE - STATION DESCRIPTION

STATION NAME: RUSH LAKE NORTH BASIN

STATION NUMBER: 05AF909

LOCATION: 5-17-W4 - 12.8 km East and 3.5 km South of New Dayton.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: **NO**

REMARKS: Lake dry for periods in 1988 - 1989.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

RUSH LAKE NORTH BASIN

STATION NO. 05AF909

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2				957.080									2
3													3
4													4
5						957.000							5
6													6
7									956.500				7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19										956.860			19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 957.080 METRES ON APR 2

MINIMUM OBSERVED DAILY WATER LEVEL, 956.500 METRES ON SEP 7
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 957.080 METRES ON APR 02/90
MIN. OBSERVED LAKE DRY ON MAY 11/89

LAKE - STATION DESCRIPTION

STATION NAME:	RUSH LAKE SOUTH BASIN
STATION NUMBER:	05AF910
LOCATION:	5-17-W4 - 12.8 km East and 3.5 km South of New Dayton.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

RUSH LAKE SOUTH BASIN

STATION NO. 05AF910

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2				958.500									2
3													3
4													4
5						957.430							5
6													6
7									958.500				7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19										958.500			19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 958.500 METRES ON APR 2

MINIMUM OBSERVED DAILY WATER LEVEL, 957.430 METRES ON JUN 5
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 958.500 METRES ON APR 02/90
MIN. OBSERVED LAKE DRY ON SEP 06/88

LAKE - STATION DESCRIPTION

STATION NAME:	SAM LAKE NEAR IRVINE
STATION NUMBER:	05AH910
LOCATION:	14-02-W4 - 20.9 km North of Irvine.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1982 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Lake dry periods in 1987 and 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SAM LAKE NEAR IRVINE

STATION NO. 05AH910

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3				720.371									3
4													4
5													5
6						DRY							6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18										DRY			18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28								DRY					28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 720.371 METRES ON APR 3

MINIMUM OBSERVED DAILY WATER LEVEL, DRY ON JUN 6
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 721.300 METRES ON APR 07/83
MIN. OBSERVED LAKE DRY ON JUN 06 - OCT 18/90

LAKE - STATION DESCRIPTION

STATION NAME: SAMSON LAKE NEAR HOBBEMA

STATION NUMBER: 05FA910

LOCATION: 43-23-W4 - 12.9 km Southeast of Hobbema.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1974 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SAMSON LAKE NEAR HOBBEMA

STATION NO. 05FA910

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2								772.729					2
3													3
4													4
5							772.712						5
6							773.294						6
7					772.219		773.382 E						7
8							773.469 E						8
9							773.557						9
10							773.561 E	772.476					10
11							773.564						11
12										771.964			12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20							773.337						20
21							773.279 E						21
22							773.222 E						22
23	772.140 B						773.164 E						23
24							773.106						24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 773.564 METRES ON JUL 11

MINIMUM OBSERVED DAILY WATER LEVEL, 771.964 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 773.564 METRES ON JUL 11/90
MIN. OBSERVED WATER LEVEL, 771.625 METRES ON JUL 20/84

B - ICE CONDITIONS
E - ESTIMATED

LAKE - STATION DESCRIPTION

STATION NAME: SANDY LAKE NEAR MORINVILLE

STATION NUMBER: 05EA914

LOCATION: 55-01-W5 - East side of Sandy Lake, 27.4 km West of Morinville.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1959 - 1961; 1963 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified June 1976.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SANDY LAKE NEAR MORINVILLE

STATION NC. 05EA914

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					697.576								10
11							697.633						11
12										697.467			12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20	697.489												20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 697.633 METRES ON JUL 11

MINIMUM OBSERVED DAILY WATER LEVEL, 697.467 METRES ON OCT 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 698.062 METRES ON JUL 19/74
MIN. OBSERVED WATER LEVEL, 696.764 METRES ON SEP 27/70

LAKE - STATION DESCRIPTION

STATION NAME:	SANDY LAKE NEAR TWO HILLS
STATION NUMBER:	05ED905
LOCATION:	56-13-W4 - 17.7 km North and 8 km West of Two Hills.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation revised 1988. Add 14.552 m to published data prior to 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SANDY LAKE NEAR TWO HILLS

STATION NO. 05ED905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						641.717		641.586	641.522	641.421			1
2							641.623	641.576					2
3							641.678	641.574	641.519	641.417			3
4						641.704	641.678			641.413			4
5							641.672	641.568	641.513				5
6						641.700	641.670						6
7						641.699		641.564	641.507	641.413			7
8						641.697		641.558	641.501				8
9							641.667	641.556					9
10					641.770		641.665	641.554	641.497				10
11					641.763	641.691	641.663	641.548	641.495	641.407			11
12					641.763			641.546					12
13						641.686	641.654						13
14						641.682		641.534					14
15					641.762		641.632	641.528					15
16					641.754		641.634			641.397			16
17					641.754	641.664	641.644	641.542	641.475				17
18					641.755	641.661	641.640		641.469				18
19					641.755	641.659	641.634	641.548					19
20					641.753	641.657	641.628	641.546	641.467				20
21					641.751	641.653			641.461	641.389			21
22						641.645	641.624	641.542	641.457				22
23								641.530		641.381			23
24	641.717				641.742	641.640		641.528					24
25						641.638	641.614		641.449				25
26					641.728		641.612						26
27						641.636		641.524	641.441				27
28					641.723	641.637	641.602						28
29						641.635	641.600	641.518					29
30					641.717		641.596						30
31					641.717		641.594	641.524					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 641.770 METRES ON MAY 10

MINIMUM OBSERVED DAILY WATER LEVEL, 641.381 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 643.812 METRES ON JUN 02/75
MIN. OBSERVED WATER LEVEL, 641.381 METRES ON OCT 23/90

LAKE - STATION DESCRIPTION

STATION NAME:	SANG (SURPRISE) LAKE NEAR EDSON
STATION NUMBER:	07AG905
LOCATION:	53-15-W5 - From Edson, 19.2 km East on Highway #16, 1.3 km South, West to lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1968 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Hydrographic Survey 1966.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Sang (Surprise) Lake near Edson

Station No. 07AG905

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3										903.438*			3
4	903.549												4
5													5
6													6
7													7
8													8
9					903.610*								9
10													10
11							903.670*						11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	903.549				903.610		903.670			903.438			TOT
MEAN	903.549x				903.610x		903.670x			903.438x			MEAN
MAX	903.549				903.610		903.670			903.438			MAX
MIN	903.549				903.610		903.670			903.438			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 903.670 Metres on JUL 11
Minimum Observed Daily Water Level: 903.438 Metres on OCT 3

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 903.769 Metres on 1977.06.02
Minimum Observed Daily Water Level: 903.235 Metres on 1971.05.27

Location: LSD NE Sec. 09 Tp. 053 Rge. 15 W5
Latitude: 53°24' " Longitude: 116°09' "

On east side of Sang Lake. From Edson, 19.2 km E on Hwy. #16, 1.3 km S to Sunset Beach Campground.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1968-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1966.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	SASKATOON LAKE NEAR GRANDE PRAIRIE
STATION NUMBER:	07GE913
LOCATION:	72-08-W6 - From Grande Prairie city centre, 19.2 km West on Highway #2, 4.0 km North, East to Saskatoon Lake Provincial Park playground.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1957-1959; 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Saskatoon Lake near Grande Prairie

Station No. 07GE913

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1							710.705	710.559	710.458				1
2						710.504		710.549	710.448				2
3						710.505	710.705	710.539	710.448				3
4						710.519	710.665	710.549	710.464	710.367*			4
5						710.505	710.666	710.549					5
6						710.505	710.676						6
7						710.498	710.661		710.448				7
8						710.481			710.448				8
9							710.676		710.448				9
10							710.667	710.549	710.458				10
11						710.511		710.548	710.448				11
12								710.548	710.454				12
13						710.716		710.552					13
14						710.717	710.626						14
15						710.712	710.627	710.498					15
16							710.628	710.493					16
17						710.712	710.628	710.498					17
18						710.721	710.623	710.494					18
19						710.722	710.623	710.493					19
20						710.713	710.623	710.488					20
21							710.628	710.491					21
22							710.624						22
23						710.716	710.613*						23
24	710.452*						710.626						24
25					710.506	710.694							25
26					710.513	710.694	710.624						26
27					710.503	710.709		710.491					27
28					710.497			710.494					28
29							710.619						29
30						710.705	710.589						30
31					710.497			710.448					31
TOT	710.452				3552.516	14212.559	15634.122	13499.830	7104.522	710.367			TOT
MEAN	710.452x				710.503x	710.628x	710.642x	710.517x	710.452x	710.367x			MEAN
MAX	710.452				710.513	710.722	710.705	710.559	710.464	710.367			MAX
MIN	710.452				710.497	710.481	710.589	710.448	710.448	710.367			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 710.722 Metres on JUN 19
Minimum Observed Daily Water Level: 710.367 Metres on OCT 4

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 711.766 Metres on 1977.05.10
Minimum Observed Daily Water Level: 709.270 Metres on 1957.09.10

Location: LSD NE Sec. 01 Tp. 072 Rge. 08 W6
Latitude: 55 13' Longitude: 119 04'

From Grande Prairie city center; 19.2 km W on Hwy. #2, 4.0 km N; E past park office to E parking lot.

Gauge Type: Outside Staff Gauge.
Period of Record: 1957-1990
Hydrographic Survey Map Available? NO

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	SCHUMAN LAKE NEAR FORT ASSINIBOINE
STATION NUMBER:	07AH905
LOCATION:	61-08-W5 - South side of Lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic Elevation verified June 1985.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SCHUMAN LAKE NEAR FORT ASSINIBOINE

STATION NO. 07AH905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					737.909								9
10							737.925						10
11										737.844			11
12													12
13													13
14													14
15													15
16													16
17													17
18	737.907												18
19													19
20						737.893							20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 737.925 METRES ON JUL 10

MINIMUM OBSERVED DAILY WATER LEVEL, 737.844 METRES ON OCT 11
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 738.025 METRES ON JUL 14/83
MIN. OBSERVED WATER LEVEL, 737.131 METRES ON NOV 06/70

LAKE - STATION DESCRIPTION

STATION NAME: SECTION 9 WETLANDS

STATION NUMBER: 05AF908

LOCATION: 05-17-W4 - 11 km East and 6 km South of New Dayton

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SECTION 9 WETLANDS

STATION NO. 05AF908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2				959.640									2
3													3
4													4
5						959.550							5
6													6
7									959.710				7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19										959.650			19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 959.710 METRES ON SEP 7

MINIMUM OBSERVED DAILY WATER LEVEL, 959.550 METRES ON JUN 5
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 959.740 METRES ON OCT 08/87
MIN. OBSERVED WATER LEVEL, 958.580 METRES ON SEP 23/87

LAKE - STATION DESCRIPTION

STATION NAME:	SEVERN RESERVOIR NEAR STANDARD
STATION NUMBER:	05CE903
LOCATION:	26-22-W4 - 12.5 km North and 2 km East of Standard.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1979 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is an Alberta Environment Control Structure on this lake. (Gated earth full dam; F.S.L. = 860.76 m)

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SEVERN RESERVOIR NEAR STANDARD

STATION NO. 05CE903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6						860.250							6
7													7
8													8
9													9
10													10
11				860.165									11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24										859.549			24
25													25
26													26
27													27
28													28
29								859.749					29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 860.250 METRES ON JUN 6

MINIMUM OBSERVED DAILY WATER LEVEL, 859.549 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 860.779 METRES ON APR 09/87
MIN. OBSERVED WATER LEVEL, 859.549 METRES ON OCT 24/90

LAKE - STATION DESCRIPTION

STATION NAME:	SHANKS LAKE NEAR DEL BONITA
STATION NUMBER:	11AA901
LOCATION:	01-21-W4 - 3.2 km North and 6.4 km East of Del Bonita.
GAUGE TYPE:	None. Level established by Surveying.
PERIOD OF RECORD:	1977 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SHANKS LAKE NEAR DEL BONITA

STATION NO. 11AA901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4				1245.084									4
5													5
6									1245.916				6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29						1246.196				1244.604			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1246.196 METRES ON JUN 29

MINIMUM OBSERVED DAILY WATER LEVEL, 1244.604 METRES ON OCT 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1246.861 METRES ON APR 18/79
MIN. OBSERVED WATER LEVEL, 1244.354 METRES ON NOV 09/88

LAKE - STATION DESCRIPTION

STATION NAME:	SHININGBANK LAKE NEAR PEERS	
STATION NUMBER:	07AG904	
LOCATION:	56-14-W5 -	From Peers, 18.6 km North on Highway #32, 2.7 km West, 3.2 km North, 1.2 km West, North to recreation area.
GAUGE TYPE:	Metric Staff Gauge.	
PERIOD OF RECORD:	1968; 1971 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation established 1982. Gauging site moved 1/2 km South to observer location in 1986. In 1989, gauge location moved north to recreation area operated by Alberta Municipal Affairs.
Hydrographic Survey 1968.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Shiningbank Lake near Peers

Station No. 07AG904

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						833.640	833.622	833.583	833.542				1
2						833.640	833.622	833.568					2
3						833.631	833.702	833.533		833.577*			3
4						833.636		833.533					4
5	833.544*					833.651	833.853	833.523					5
6							833.953	833.508					6
7						833.651	833.963	833.503					7
8						833.661	833.963	833.498					8
9					833.573		833.923	833.493					9
10								833.493					10
11						833.661	833.880*	833.483					11
12							833.853	833.483					12
13							833.823	833.483					13
14						833.721	833.793						14
15						833.721	833.773						15
16						833.721	833.753	833.483					16
17						833.721		833.493					17
18						833.722		833.493					18
19							833.703	833.493					19
20							833.693	833.493					20
21						833.702	833.673	833.493					21
22						833.682	833.673	833.498					22
23						833.677	833.663	833.497					23
24					833.572	833.677		833.492					24
25					833.610			833.492					25
26					833.635		833.623	833.497					26
27					833.640		833.613	833.518					27
28					833.645	833.652	833.593	833.522					28
29						833.647	833.593	833.527					29
30						833.632	833.593	833.527					30
31					833.650			833.532					31
TOT	833.544				5835.325	16673.446	20009.896	24171.734	833.542	833.577			TOT
MEAN	833.544x				833.618x	833.672x	833.746x	833.508x	833.542x	833.577x			MEAN
MAX	833.544				833.650	833.722	833.963	833.583	833.542	833.577			MAX
MIN	833.544				833.572	833.631	833.593	833.483	833.542	833.577			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 833.963 Metres on JUL 7
Minimum Observed Daily Water Level: 833.483 Metres on AUG 11

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 834.958 Metres on 1989.08.20
Minimum Observed Daily Water Level: 833.428 Metres on 1975.01.20

Location: LSD SW Sec. 28 Tp. 056 Rge. 14 W5
Latitude: 53 52'   Longitude: 116 02'

From Sec #748, ~10 km N on Hwy #32, ~3.0 km W, 3.2 km N, ~1.2 km W and N to recreation area.

Gauge Type: Outside Staff Gauge.
Period of Record: 1989-1990
Hydrographic Survey Map Available? YES
Geodetic Elevation established, 1982. Hydrographic Survey 1968.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	SHOOTING LAKE NEAR GADSBY
STATION NUMBER:	05CF903
LOCATION:	37-17-W4 - 13.8 km South of Gadsby
GAUGE TYPE:	One Metre Staff Gauge.
PERIOD OF RECORD:	1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SHOOTING LAKE NEAR GADSBY

STATION NO. 05CF903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						826.830							1
2								826.959	826.856				2
3													3
4						826.861							4
5								826.950	826.846				5
6													6
7						826.912							7
8					826.879								8
9								826.915	826.836				9
10													10
11						826.941							11
12								826.895	826.841				12
13													13
14													14
15						826.944		826.877	826.826				15
16							826.937	826.875					16
17						826.945							17
18													18
19					826.838		826.973	826.875					19
20							826.934						20
21						826.936							21
22								826.871					22
23					826.832		826.944			826.730			23
24						826.927							24
25													25
26					826.833			826.866					26
27						826.924	826.959						27
28													28
29								826.866					29
30	826.525 B				826.829	826.918							30
31							826.965						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 826.973 METRES ON JUL 19

MINIMUM OBSERVED DAILY WATER LEVEL, 826.525 METRES ON JAN 30
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 827.218 METRES ON MAY 06/87
MIN. OBSERVED WATER LEVEL, 826.499 METRES ON OCT 25/89

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	SHUSTER LAKE NEAR WAINWRIGHT
STATION NUMBER:	05DF902
LOCATION:	43-05-W4 - 16.1 km East and 11.3 km South of Wainwright.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1980 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is an outlet control structure on this lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SHUSTER LAKE NEAR WAINWRIGHT

STATION NO. 05FD902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					661.586								9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17							661.594						17
18													18
19													19
20													20
21													21
22													22
23													23
24										661.703			24
25	661.503												25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 661.703 METRES ON OCT 24

MINIMUM OBSERVED DAILY WATER LEVEL, 661.503 METRES ON JAN 25
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 661.991 METRES ON FEB 16/88
MIN. OBSERVED WATER LEVEL, 661.418 METRES ON JUL 26/89

LAKE - STATION DESCRIPTION

STATION NAME: SIBBALD LAKE NEAR SIBBALD FLATS

STATION NUMBER: 05BH905

LOCATION: 24-07-W5 - 8 km West of Jumpingpound Ranger Station at Day Use Campground 0.5 km North of Secondary Highway #68.

GAUGE TYPE: None. Level established by Surveying monthly.

PERIOD OF RECORD: 1986 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SIBBALD LAKE NEAR SIBBALD FLATS

STATION NO. 05BH905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6						26.190							6
7													7
8													8
9													9
10													10
11				25.504									11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29								27.087					29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 27.087METRES ON ,AUG 29

MINIMUM OBSERVED DAILY WATER LEVEL, 25.504METRES ON ,APR 11
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 27.087 METRES ON AUG 29/90
MIN. OBSERVED WATER LEVEL, 24.619 METRES ON JAN 19/89

LAKE - STATION DESCRIPTION

STATION NAME:	SINCLAIR LAKE NEAR HYTHE	
STATION NUMBER:	07GD902	
LOCATION:	74-12-W6 -	From Hythe, 12.8 km Northwest on Highway #2, 0.5 km South, West through Brainard campground to lake.
GAUGE TYPE:	None. Level established by surveying.	
PERIOD OF RECORD:	1972; 1975 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake constructed in 1951. Reconstructed in 1969.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Sinclair Lake near Hythe

Station No. 07GD902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15						791.458				791.289*			15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23	790.865*												23
24					791.178								24
25													25
26													26
27													27
28													28
29													29
30							791.401*						30
31													31
TOT	790.865				791.178	791.458	791.401			791.289			TOT
MEAN	790.865x				791.178x	791.458x	791.401x			791.289x			MEAN
MAX	790.865				791.178	791.458	791.401			791.289			MAX
MIN	790.865				791.178	791.458	791.401			791.289			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 791.458 Metres on JUN 15
Minimum Observed Daily Water Level: 790.865 Metres on JAN 23

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 791.465 Metres on 1976.08.24
Minimum Observed Daily Water Level: 790.746 Metres on 1988.10.06

Location: LSD NE Sec. 11 Tp. 074 Rge. 12 W6
Latitude: 55 25' Longitude: 119 46'

From Hythe, 12.8 km NW on Hwy #2; 0.5 km S, W through Brainard Park to lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1972-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure built 1951, reconstructed 1969.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	SKELETON LAKE NEAR BOYLE
STATION NUMBER:	06AA914
LOCATION:	65-18-W4 - East side of Skeleton Lake, 6.4 km East and 1.1 km North of Boyle
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1965 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	**YES**
REMARKS:	Geodetic Elevation verified April 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SKELETON LAKE NEAR BOYLE

STATION NO. 06AA914

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						623.208	623.167		623.090	623.012	622.977		1
2						623.210	623.167	623.138	623.090	623.012	622.977		2
3						623.196	623.207	623.138	623.080	623.012	622.977		3
4						623.198	623.221	623.138	623.080	623.012			4
5						623.188	623.217	623.133	623.080	623.012			5
6						623.196	623.217	623.128	623.080				6
7						623.188	623.217	623.129	623.081				7
8							623.217	623.129	623.076				8
9							623.211	623.124	623.076				9
10							623.207	623.124	623.071				10
11							623.207	623.114	623.071				11
12							623.207	623.109					12
13								623.079					13
14					623.223			623.079					14
15					623.218	623.176		623.079					15
16					623.218	623.176		623.089		622.992			16
17					623.215	623.176		623.094		622.992			17
18					623.215	623.176		623.099	623.061	622.992			18
19					623.216	623.176		623.099	623.061	623.002			19
20					623.195	623.176		623.099	623.051	622.992			20
21					623.195	623.177		623.094	623.051	622.982			21
22					623.215	623.167		623.094	623.046	622.982			22
23					623.196	623.167		623.095	623.047	622.982			23
24					623.226	623.167		623.095	623.042	622.977			24
25					623.196	623.167		623.095	623.042	622.982			25
26					623.207	623.167		623.095	623.037	622.982			26
27					623.220	623.167		623.095	623.037	622.982			27
28					623.216	623.162		623.090	623.032	622.987			28
29	623.144				623.200	623.167		623.090	623.032	622.982			29
30					623.196	623.167	623.144	623.080	623.032	622.982			30
31					623.200			623.080		622.982			31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 623.226 METRES ON MAY 24

MINIMUM OBSERVED DAILY WATER LEVEL, 622.977 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 623.846 METRES ON JUL 23/74
MIN. OBSERVED WATER LEVEL, 622.977 METRES ON OCT 24/90

LAKE - STATION DESCRIPTION

STATION NAME: SMOKE LAKE NEAR FOX CREEK

STATION NUMBER: 07GG902

LOCATION: 62-20-W5 - From intersection at Fox Creek, 5.5 km Southwest,3.0 km West, and 1.0 km South to lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is no Ducks Unlimited control structure on this lake as indicated in 1983.
Hydrographic Survey 1968.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Smoke Lake near Fox Creek

Station No. 07GG902

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						837.437			837.004				1
2						837.439	837.112		837.004				2
3						837.441		837.049		837.014*			3
4								837.044	837.024				4
5	837.218*						837.200		837.024				5
6							837.227	837.042	837.024				6
7							837.226						7
8						837.401	837.236						8
9						837.384							9
10					837.360*	837.336			837.019				10
11					837.359		837.209*	837.021	837.019				11
12					837.357			837.021	837.014				12
13								837.019	837.019				13
14						837.641			837.014				14
15					837.350	837.629							15
16					837.351	837.582							16
17					837.349	837.537		837.015	837.039				17
18								837.013	837.034				18
19								837.011					19
20					837.334		837.097	837.011					20
21					837.340		837.087		837.034				21
22						837.351	837.087						22
23						837.245							23
24					837.335	837.240							24
25									837.034				25
26					837.363								26
27							837.057						27
28							837.057						28
29						837.141	837.055						29
30						837.131							30
31								837.004					31
TOT	837.218				8373.498	12560.935	10045.650	9207.250	11718.306	837.014			TOT
MEAN	837.218x				837.350x	837.396x	837.138x	837.023x	837.022x	837.014x			MEAN
MAX	837.218				837.363	837.641	837.236	837.049	837.039	837.014			MAX
MIN	837.218				837.334	837.131	837.055	837.004	837.004	837.014			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 837.641 Metres on JUN 14
Minimum Observed Daily Water Level: 837.004 Metres on SEP 1

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 837.641 Metres on 1990.06.14
Minimum Observed Daily Water Level: 836.710 Metres on 1978.01.31

Location: LSD NW Sec. 15 Tp. 062 Rge. 20 W5
Latitude: 54 22'   Longitude: 116 55'

From Hwy #43 intersection at Fox Creek, 5.5 km SW, 3.0 km W and 1.0 km S to lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1968-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1968.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: SMOKY LAKE NEAR WARSPITE

STATION NUMBER: 05EC902

LOCATION: 60-18-W4 - East Side of Smoky Lake, 6.4 km North of Highway #28 and 11.3 km West of the town of Smoky Lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1969; 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake. Water Survey of Canada operated station 05EC001, 1919-22. Geodetic Elevation verified April 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SMOKY LAKE NEAR WARSPITE

STATION NO. 05EC902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		635.938 B											1
2								635.879					2
3													3
4										635.757			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18					636.050								18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 636.050 METRES ON MAY 18

MINIMUM OBSERVED DAILY WATER LEVEL, 635.757 METRES ON OCT 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 638.196 METRES ON JAN 11/74
MIN. OBSERVED WATER LEVEL, 635.757 METRES ON OCT 04/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	SNIPE LAKE NEAR VALLEYVIEW
STATION NUMBER:	07GH901
LOCATION:	71-19-W5 - From Valleyview, 3.2 km North on Highway #34, 22.4 km East on Sec 669, 3.2 km North on Sec 747, 5.6 km East on gravel road, North to lake.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1973 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	**YES**
REMARKS:	There is an Esso Resource Canada Ltd. control structure on this lake. It was constructed in 1974, by Gulf Canada Resources Ltd. Geodetic elevation established July 1980. Hydrographic Survey completed 1962.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Snipe Lake near Valleyview

Station No. 07GH901

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						742.595	742.618	742.523	742.465				1
2						742.595	742.619	742.508	742.459				2
3						742.583	742.621	742.500	742.457				3
4						742.577	742.625	742.496	742.453				4
5						742.574	742.621	742.488	742.451				5
6						742.576	742.613	742.478	742.451				6
7						742.568	742.610	742.476	742.450				7
8						742.568	742.594	742.472	742.452				8
9						742.566	742.592	742.466	742.456				9
10						742.565	742.602	742.466	742.456				10
11	742.571*					742.569	742.602	742.467	742.454				11
12						742.617	742.599	742.465	742.454				12
13						742.661	742.591	742.465	742.448				13
14						742.673	742.575	742.465	742.446				14
15						742.695	742.565	742.457	742.445				15
16						742.694	742.570	742.489	742.447				16
17					742.598*	742.690	742.576	742.484	742.453				17
18					742.596	742.680	742.574	742.479	742.455				18
19					742.598	742.670	742.569*	742.477	742.449				19
20					742.629	742.665	742.566	742.474	742.445				20
21					742.623	742.661	742.564	742.470	742.445				21
22					742.617	742.661	742.562	742.470	742.445				22
23					742.617	742.649	742.560	742.450	742.443				23
24					742.615	742.649	742.557	742.450	742.442				24
25					742.615	742.641	742.553	742.448	742.434				25
26					742.614	742.638	742.551	742.442	742.432				26
27					742.606	742.632	742.543	742.440	742.430				27
28					742.604	742.628	742.539	742.435	742.422*				28
29					742.602	742.626	742.531	742.431					29
30					742.596	742.622	742.531	742.459					30
31					742.595		742.531	742.469					31
TOT	742.571				11139.125	22278.788	23019.924	23016.559	20788.539				TOT
MEAN	742.571x				742.608x	742.626	742.578	742.470	742.448x				MEAN
MAX	742.571				742.629	742.695	742.625	742.523	742.465				MAX
MIN	742.571				742.595	742.565	742.531	742.431	742.422				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
- Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 742.695 Metres on JUN 15
Minimum Observed Daily Water Level: 742.422 Metres on SEP 28

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 743.207 Metres on 1977.07.12
Minimum Observed Daily Water Level: 742.164 Metres on 1981.10.15

Location: LSD SW Sec. 02 Tp. 071 Rge. 19 W5
Latitude: 55 06'   Longitude: 116 50'

From Sec #747 at Sunset House, 5.6 km E to private campground, N through yard to lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1973-1990
Hydrographic Survey Map Available? YES

ESSO Resources Canada Ltd. control structure, 1974. Geodetic Elevation established 1980. Hydrographic Survey completed 1962.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	SOUTH HEART RESERVOIR AT SPILLWAY #1 NEAR MCLENNAN
STATION NUMBER:	07BF909
LOCATION:	77-17-W5 - From Highway #49 South of McLennan, 13.6 km East on Secondary #679, 10.5 km North, East to Spillway #1.
GAUGE TYPE:	Staff Gauge
PERIOD OF RECORD:	1981 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There are ADOE control structures on this reservoir constructed in 1949. Environment Canada, Water Resources Branch began monitoring this reservoir (station number 07BF008) in 1981. On August 3, 1983, they recorded a maximum observed water level of 627.049 m. Alberta Environment began monitoring this reservoir in 1984 to provide real-time data to the Alberta River Forecast Centre.
Hydrographic Survey 1981 and 1985.
Monitored by WSC since 1981.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

South Heart Reservoir at Spillway #1 near McLennan

Station No. 07BF909

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2				625.763									2
3					626.080		625.938	625.727					3
4						625.699							4
5			625.718								625.489		5
6				625.842			625.918						6
7					626.110				625.588				7
8						625.649							8
9				625.882			625.887	625.703					9
10	625.857												10
11	625.878*				626.110	625.669							11
12				625.895*		625.649							12
13						625.641	625.797						13
14					626.140	625.668							14
15					626.140	625.688							15
16					626.140								16
17				625.921	626.122			625.687	625.548				17
18					626.120	625.808				625.479			18
19						625.828	625.816*		625.548	625.479			19
20			625.655	625.951			625.817						20
21													21
22					626.059	625.938							22
23				626.001									23
24								625.617					24
25					626.019	625.968	625.787						25
26			625.664							625.479			26
27				626.030		625.958							27
28					625.919	625.968		625.596	625.525*				28
29								625.598					29
30				626.070	625.859		625.757						30
31													31
TOT	1251.735		1877.037	5633.355	7512.818	8135.131	5006.717	3753.928	2502.209	1876.437	625.489		TOT
MEAN	625.868x		625.679x	625.928x	626.068x	625.779x	625.840x	625.655x	625.552x	625.479x	625.489x		MEAN
MAX	625.878		625.718	626.070	626.140	625.968	625.938	625.727	625.588	625.479	625.489		MAX
MIN	625.857		625.655	625.763	625.859	625.641	625.757	625.596	625.525	625.479	625.489		MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 626.140 Metres on MAY 14
Minimum Observed Daily Water Level: 625.479 Metres on OCT 18

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 626.703 Metres on 1984.07.18
Minimum Observed Daily Water Level: 624.321 Metres on 1985.04.02

Location: LSD SE Sec. 20 Tp. 077 Rge. 17 W5
Latitude: 55 41' Longitude: 116 36'

From Hwy. #49 S of McLennan, 13.6 km E on Sec. #679, 10 km N to Heart River Dams area, 1.5 km ENE to spillway.

Gauge Type: Outside Staff Gauge.
Period of Record: 1981-1990
Hydrographic Survey Map Available? NO
There are Alberta Environment control structures on this reservoir constructed in 1949. Hydrographic Survey 1981 and 1985. Monitored by WSC since 1981.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: SPOTTED LAKE NEAR MIRROR

STATION NUMBER: 05CD903

LOCATION: 41-22-W4 - 1.6 km west and 3.2 km north of Mirror

GAUGE TYPE: Water Level Recorder.

PERIOD OF RECORD: 1988 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SPOTTED LAKE NEAR MIRROR

STATION NO. 05CD903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1				785.363 E	785.036	784.562	784.679	784.713	DRY	DRY			1
2				785.431 E	785.023	784.708	784.661	784.674	DRY	DRY			2
3				785.500 E	785.007	784.748	784.791	784.630	DRY	DRY			3
4				785.568 A	784.994	784.788	784.885	784.577	DRY	DRY			4
5					784.980	784.864	784.897	784.525	DRY	DRY			5
6					784.959	784.846	784.920	784.502	DRY	DRY			6
7					784.946	784.751	784.972	784.485	DRY	DRY			7
8					784.944	784.724	785.011	784.472	DRY	DRY			8
9					784.948	784.697	785.023	784.475	DRY	DRY			9
10					784.952	784.632	785.022	784.472	DRY	DRY			10
11					784.951	784.626	785.007	784.461	DRY	DRY			11
12					784.950	784.747	784.988	784.447	DRY	DRY			12
13					784.943	784.858	784.973	784.432	DRY	DRY			13
14					784.949	784.861	784.965	784.424	DRY	DRY			14
15					784.955	784.859	784.953	784.415	DRY	DRY			15
16					784.950	784.877	784.961	784.416 A	DRY	DRY			16
17				785.625 A	784.948	784.887	784.957	DRY	DRY	DRY			17
18				785.583 E	784.942	784.863	784.947	DRY	DRY	DRY			18
19				785.541 A	784.941	784.798	784.942	DRY	DRY	DRY			19
20				785.485 E	784.933	784.741	784.936	DRY	DRY	DRY			20
21				785.429 E	784.930	784.694	784.929	DRY	DRY	DRY			21
22				785.372 E	784.926	784.661	784.924	DRY	DRY	DRY			22
23				785.316 E	784.837	784.637	784.915	DRY	DRY	DRY			23
24				785.260 A	784.773	784.620	784.908	DRY	DRY	DRY			24
25				785.201	784.713	784.617	784.899	DRY	DRY	DRY			25
26				785.154	784.599	784.740	784.902	DRY	DRY	DRY			26
27			785.020 A	785.138	784.576	784.780	784.887	DRY	DRY	DRY			27
28			785.089 E	785.107	784.559	784.779	784.869	DRY	DRY	DRY			28
29			785.157 E	785.059	784.552	784.754	784.845	DRY	DRY	DRY			29
30			785.226 E	785.049	784.559	784.713	784.806	DRY	DRY	DRY			30
31			785.294 E		784.561		784.747	DRY		DRY			31
TOTAL					24330.836	23542.432	24332.121						TOTAL
MEAN					784.866	784.748	784.907						MEAN
MAX					785.036	784.887	785.023						MAX
MIN					784.552	784.562	784.661						MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY WATER LEVEL, 785.625 METRES ON APR 17

MINIMUM DAILY WATER LEVEL, DRY ON AUG 17
MAXIMUM INSTANTANEOUS WATER LEVEL, METRES AT
WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 785.693 METRES ON MAY 02/89
MIN. OBSERVED WATER LEVEL, DRY YEARLY

A - MANUAL GAUGE
E - ESTIMATED

LAKE - STATION DESCRIPTION

STATION NAME: SPRING LAKE NEAR STONY PLAIN

STATION NUMBER: 05EA905

LOCATION: 52-01-W5 - 9.7 km West of Stony Plain.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1937; 1939-1944; 1956 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified May 1978.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SPRING LAKE NEAR STONY PLAIN

STATION NO. 05EA905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11					724.153								11
12							724.244						12
13													13
14													14
15													15
16	724.016												16
17													17
18										724.073			18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 724.244 METRES ON JUL 12

MINIMUM OBSERVED DAILY WATER LEVEL, 724.016 METRES ON JAN 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 726.361 METRES ON OCT /39
MIN. OBSERVED WATER LEVEL, 722.999 METRES ON MAY 21/68

LAKE - STATION DESCRIPTION

STATION NAME: SPRUCE COULEE RESERVOIR NEAR MEDICINE HAT

STATION NUMBER: 11AB901

LOCATION: 08-02-W4 - 22.5 km east of Medicine Hat on Highway #1, 37.8 km south on Highway #41 and 8.0 km northeast.

GAUGE TYPE: None. level established by surveying.

PERIOD OF RECORD: 1978 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: **YES**

REMARKS: Maximum water level also in 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SPRUCE COULEE RESERVOIR NEAR MEDICINE HAT

STATION NO. 11AB901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5				28.337									5
6						28.669							6
7													7
8													8
9								28.577					9
10													10
11													11
12													12
13												28.154	13
14													14
15													15
16													16
17													17
18										28.288			18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 28.669METRES ON ,JUN 6

MINIMUM OBSERVED DAILY WATER LEVEL, 28.154METRES ON ,DEC 13
WATER LEVELS ARE REFERRED TO ASSUMED DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 28.800 METRES ON MAY 09/88
MIN. OBSERVED WATER LEVEL, 27.142 METRES ON SEP 30/81

LAKE - STATION DESCRIPTION

STATION NAME:	SQUARE LAKE NEAR LAC LA BICHE
STATION NUMBER:	07CA906
LOCATION:	68-13-W4 - South side of Square Lake, 9.7 km East and 13.7 km North of Lac La Biche.
GAUGE TYPE:	None. level established by surveying.
PERIOD OF RECORD:	1973 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SQUARE LAKE NEAR LAC LA BICHE

STATION NO. 07CA906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										580.548			1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15					580.772								15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30	580.614						580.699						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 580.772 METRES ON MAY 15

MINIMUM OBSERVED DAILY WATER LEVEL, 580.548 METRES ON OCT 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 581.302 METRES ON JUL 25/75
MIN. OBSERVED WATER LEVEL, 580.522 METRES ON FEB 01/83

LAKE - STATION DESCRIPTION

STATION NAME: STAFFORD LAKE AT BROOKS

STATION NUMBER: 05CJ901

LOCATION: 19-15-W4 - North of Brooks

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1983 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

STAFFORD LAKE AT BROOKS

STATION NO. 05CJ901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6						748.747							6
7													7
8													8
9													9
10													10
11				749.682									11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24										747.932			24
25													25
26													26
27													27
28													28
29								748.231					29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 749.682 METRES ON APR 11

MINIMUM OBSERVED DAILY WATER LEVEL, 747.932 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 751.092 METRES ON MAY 24/83
MIN. OBSERVED WATER LEVEL, 747.932 METRES ON OCT 24/90

LAKE - STATION DESCRIPTION

STATION NAME: STAR LAKE NEAR CARVEL CORNER

STATION NUMBER: 05DE905

LOCATION: 52-02-W5 - East side of Star Lake, 2.4 km South and 4.5 km West of Carvel.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1968-1972; 1974 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1984. Subtract 0.116 m from published data prior to 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

STAR LAKE NEAR CARVEL CORNER

STATION NO. 05DE905

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1					738.380	738.399		738.512					1
2									738.483				2
3						738.389		738.500	738.481				3
4								738.500	738.477				4
5								738.498	738.475				5
6								738.496	738.475				6
7							738.576	738.490					7
8						738.388	738.576						8
9							738.575	738.490	738.471				9
10								738.484	738.463				10
11					738.378		738.573	738.478	738.464				11
12						738.397	738.575	738.474					12
13						738.397		738.472	738.458				13
14								738.472					14
15								738.470					15
16	'738.225							738.484	738.458				16
17						738.399		738.482	738.456				17
18					738.379			738.483		738.397			18
19					738.369			738.479					19
20					738.369			738.479					20
21					738.380			738.477					21
22								738.475					22
23							738.535	738.473					23
24					738.400		738.536	738.471					24
25							738.536	738.465					25
26							738.534	738.461					26
27					738.398		738.528	738.459					27
28					738.399		738.522	738.455					28
29					738.399			738.453					29
30					738.399		738.520	738.475					30
31							738.514	738.485					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 738.576 METRES ON JUL 7

MINIMUM OBSERVED DAILY WATER LEVEL, 738.225 METRES ON JAN 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 738.576 METRES ON JUL 07/90
MIN. OBSERVED WATER LEVEL, 736.631 METRES ON OCT 05/70

LAKE - STATION DESCRIPTION

STATION NAME:	STRUBEL LAKE NEAR CAROLINE
STATION NUMBER:	05DB901
LOCATION:	37-07-W5 - East side of Strubel Lake, 19.2 km South and 5.6 km West of Rocky Mountain House.
GAUGE TYPE:	None. level established by surveying.
PERIOD OF RECORD:	1971 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	**YES**
REMARKS:	Water levels are approximate Geodetic 1971-1977, Geodetic 1978 to present.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

STRUBEL LAKE NEAR CAROLINE

STATION NO. 05DB901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					1060.838								9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24										1060.667			24
25													25
26							1060.872						26
27													27
28													28
29													29
30													30
31	1060.741												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1060.872 METRES ON JUL 26

MINIMUM OBSERVED DAILY WATER LEVEL, 1060.667 METRES ON OCT 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1061.043 METRES ON MAY 07/87
MIN. OBSERVED WATER LEVEL, 1060.612 METRES ON OCT 18/79

LAKE - STATION DESCRIPTION

STATION NAME: SULPHUR LAKE NEAR DIXONVILLE

STATION NUMBER: 07HA909

LOCATION: 89-02-W6 - From Dixonville, 3.2 km North on Highway #35, 20.0 km West, 3.2 km North, 14.4 km West, 18.0 km North to lake.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1982 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic Elevation established in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Sulphur Lake near Dixonville

Station No. 07HA909

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						747.058	746.977						1
2							746.977						2
3								746.899	746.840				3
4						747.059							4
5								746.889					5
6							746.957	746.889					6
7									746.840				7
8						747.104							8
9	746.953*						746.957						9
10								746.859	746.835				10
11													11
12													12
13							746.948	746.859					13
14													14
15					747.056	747.055							15
16							746.958						16
17							746.951*	746.849					17
18						747.060							18
19							746.948						19
20								746.849					20
21					747.043								21
22						746.956							22
23							746.938						23
24								746.850					24
25					747.054	746.946			746.798*				25
26													26
27							746.938	746.850					27
28					747.064								28
29						746.947							29
30							746.909						30
31								746.840					31
TOT	746.953				2988.217	5976.185	8216.458	7468.633	2987.313				TOT
MEAN	746.953x				747.054x	747.023x	746.951x	746.863x	746.828x				MEAN
MAX	746.953				747.064	747.104	746.977	746.899	746.840				MAX
MIN	746.953				747.043	746.946	746.909	746.840	746.798				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 747.104 Metres on JUN 8
Minimum Observed Daily Water Level: 746.798 Metres on SEP 25

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 747.366 Metres on 1987.08.13
Minimum Observed Daily Water Level: 745.840 Metres on 1982.07.20

Location: LSD NW Sec. 07 Tp. 089 Rge. 02 W6
Latitude: 56 43' Longitude: 118 18'

From Dixonville, 3.2 km N on Hwy #35, 20.0 km W, 3.2 km N, 14.4 km W, and 18.0 km N to lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1982-1990
Hydrographic Survey Map Available? NO
Geodetic Elevation established in 1984.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: SWAN LAKE NEAR ROCKY MOUNTAIN HOUSE

STATION NUMBER: 05DB902

LOCATION: 36-09-W5 - North side of lake, 29 km South and 17.7 km West of Rocky Mountain House.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation revised in 1987. Add 0.380 m to published data prior to 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

SWAN LAKE NEAR ROCKY MOUNTAIN HOUSE

STATION NO. 05DB902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					1211.665								9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24										1211.604			24
25													25
26							1211.679						26
27													27
28													28
29													29
30													30
31	1211.492												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 1211.679 METRES ON JUL 26

MINIMUM OBSERVED DAILY WATER LEVEL, 1211.492 METRES ON JAN 31
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 1212.240 METRES ON JUL 15/81
MIN. OBSERVED WATER LEVEL, 1211.438 METRES ON FEB 04/87

LAKE - STATION DESCRIPTION

STATION NAME:	TELFORD LAKE AT LEDUC
STATION NUMBER:	05DF903
LOCATION:	49-25-W4 - At the West end of the lake near Telford House in Leduc.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1973-1974; 1982 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	There is a Ducks Unlimited Control Structure on this lake. Geodetic Elevation verified in 1982.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

TELFORD LAKE AT LEDUC

STATION NO. 05DF903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1											726.150		1
2													2
3													3
4													4
5													5
6							726.584						6
7		726.291 B			726.219								7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27							726.407						27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 726.584 METRES ON JUL 6

MINIMUM OBSERVED DAILY WATER LEVEL, 726.150 METRES ON NOV 1
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 726.584 METRES ON JUL 06/90
MIN. OBSERVED WATER LEVEL, 725.775 METRES ON JUL 31/85

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	THUNDER LAKE NEAR BARRHEAD
STATION NUMBER:	07BB909
LOCATION:	59-05-W5 - East side of Thunder Lake, 20.9 km West of Barrhead
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1960-1961; 1964 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	There is an Alberta Environment Control Structure on this lake. (Concrete weir with control gate; F.S.L. = 654.10 m). Geodetic Elevations were revised, add 0.331 m to data published prior to 1989.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

THUNDER LAKE NEAR BARRHEAD

STATION NO. 07BB909

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						653.969		653.902					1
2						653.965	653.912	653.902					2
3						653.967		653.902					3
4						653.964		653.892					4
5						653.962	653.965	653.892					5
6							653.971						6
7					654.007		653.971						7
8					654.007			653.873					8
9					653.997			653.871					9
10					654.000	653.950	653.977						10
11					654.000	653.954	653.963			653.881			11
12					654.000	653.958		653.858					12
13						653.964	653.963	653.848					13
14						653.959	653.963	653.848					14
15						653.959	653.946	653.851					15
16						653.959		653.853					16
17						653.959		653.851					17
18	653.957					653.957	653.947	653.845					18
19					653.996	653.955		653.841					19
20					653.986	653.947	653.927	653.843					20
21					653.986	653.937	653.932	653.837					21
22					653.986	653.928	653.932						22
23					653.966	653.935	653.930						23
24						653.941							24
25					653.990	653.926	653.922						25
26					653.987	653.926	653.917	653.853					26
27					653.989	653.932	653.912	653.852					27
28					653.980	653.932							28
29					653.975		653.895						29
30				654.017	653.975	653.922	653.902						30
31					653.973		653.903						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 654.017 METRES ON APR 30

MINIMUM OBSERVED DAILY WATER LEVEL, 653.837 METRES ON AUG 21
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 654.494 METRES ON MAY 10/72
MIN. OBSERVED WATER LEVEL, 653.461 METRES ON SEP 13/68

LAKE - STATION DESCRIPTION

STATION NAME:	TOUCHWOOD LAKE NEAR LAC LA BICHE
STATION NUMBER:	06AB902
LOCATION:	68-10-W4 - Northwest corner of Touchwood Lake, 35.4 km East and 11.3 km North of Lac La Biche.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

TOUCHWOOD LAKE NEAR LAC LA BICHE

STATION NO. 06AB902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1										631.659			1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15					631.782								15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30	631.598						631.800						30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 631.800 METRES ON JUL 30

MINIMUM OBSERVED DAILY WATER LEVEL, 631.598 METRES ON JAN 30
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 631.950 METRES ON MAY 07/85
MIN. OBSERVED WATER LEVEL, 630.900 METRES ON SEP 30/73

LAKE - STATION DESCRIPTION

STATION NAME:	TWIN LAKE # 1 NEAR HOADLEY
STATION NUMBER:	05DE906
LOCATION:	46-03-W5 - 5.6 km East and 1.6 km South of Winfield.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

TWIN LAKE # 1 NEAR HOADLEY

STATION NO. 05DE906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6							920.023						6
7		920.059			920.080								7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27							920.080						27
28													28
29										920.018			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 920.080 METRES ON MAY 7

MINIMUM OBSERVED DAILY WATER LEVEL, 920.018 METRES ON OCT 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 920.080 METRES ON MAY 07/90
MIN. OBSERVED WATER LEVEL, 919.018 METRES ON FEB 19/81

LAKE - STATION DESCRIPTION

STATION NAME: TWIN LAKE # 2 NEAR HOADLEY

STATION NUMBER: 05DE907

LOCATION: 46-03-W5 - 5.6 km East and 1.6 km South of Winfield.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

TWIN LAKE # 2 NEAR HOADLEY

STATION NO. 05DE907

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6							931.112						6
7		930.975			931.043								7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27							931.115						27
28													28
29										931.075			29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 931.115 METRES ON JUL 27

MINIMUM OBSERVED DAILY WATER LEVEL, 930.975 METRES ON FEB 7
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 931.214 METRES ON FEB 19/81
MIN. OBSERVED WATER LEVEL, 930.941 METRES ON JUL 17/84

LAKE - STATION DESCRIPTION

STATION NAME: TWIN LAKES (EAST) NEAR KEG RIVER

STATION NUMBER: 07HC903

LOCATION: NE 29-97-22-W5 - From Keg River, 37 km South on Highway #35, 1/2 km West on campground road to beach area.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic Elevation established 1989.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Twin Lakes (East) near Keg River

Station No. 07HC903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						709.817	709.847	709.764					1
2						709.812		709.762					2
3						709.810	709.837	709.762					3
4						709.808	709.836						4
5						709.813	709.834						5
6						709.812	709.842						6
7						709.810	709.842	709.743	709.650				7
8						709.811	709.840	709.742					8
9	709.678*					709.813		709.743					9
10						709.816		709.741					10
11								709.742					11
12						709.845	709.841						12
13						709.856	709.835						13
14						709.851	709.833	709.711	709.649				14
15					709.815	709.861	709.825	709.708					15
16						709.862	709.819	709.710	709.652				16
17						709.861	709.813*	709.712					17
18						709.860	709.806	709.704	709.647				18
19						709.857	709.811	709.708					19
20						709.860	709.813	709.712					20
21						709.850	709.813	709.710					21
22						709.851	709.813	709.709	709.646				22
23						709.844	709.813	709.705					23
24						709.851	709.814	709.705					24
25						709.834			709.622*				25
26						709.839	709.811						26
27						709.837	709.781						27
28					709.811	709.836	709.797						28
29					709.809	709.829	709.766						29
30					709.803	709.769							30
31					709.802		709.766						31
TOT	709.678				3549.040	20585.175	17745.448	13484.793	4257.866				TOT
MEAN	709.678x				709.808x	709.834x	709.818x	709.726x	709.644x				MEAN
MAX	709.678				709.815	709.862	709.847	709.764	709.652				MAX
MIN	709.678				709.802	709.769	709.766	709.704	709.622				MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level

* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 709.862 Metres on JUN 16
Minimum Observed Daily Water Level: 709.622 Metres on SEP 25

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 709.862 Metres on 1990.06.16
Minimum Observed Daily Water Level: 709.435 Metres on 1987.07.28

Location: LSD NE Sec. 29 Tp. 097 Rge. 22 W5
Latitude: 57 26' Longitude: 117 32'

From Manning, ~61 km N on Hwy #35, 0.5 km W on campground road to lake. Also, 0.5 km N of Twin Lake service station, or ~37 km S of Keg River.

Gauge Type: Outside Staff Gauge.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO
Geodetic Elevation established 1989.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: TYRRELL LAKE NEAR WARNER

STATION NUMBER: 05AF903

LOCATION: 05-17-W4 - 10.0 km East and 6.0 km South of New Dayton.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1977 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake. Tyrrell Lake (East) published in "Alberta Miscellaneous Lake Levels" 1978 - 1979.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

TYRRELL LAKE NEAR WARNER

STATION NO. 05AF903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2				957.965									2
3													3
4													4
5						957.870							5
6													6
7									957.500				7
8													8
9													9
10													10
11													11
12												957.263	12
13													13
14													14
15								957.610					15
16													16
17													17
18													18
19										957.295			19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 957.965 METRES ON APR 2

MINIMUM OBSERVED DAILY WATER LEVEL, 957.263 METRES ON DEC 12
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 960.218 METRES ON MAY 02/79
MIN. OBSERVED WATER LEVEL, 956.985 METRES ON SEP 23/86

LAKE - STATION DESCRIPTION

STATION NAME: UNNAMED LAKE BELOW SPILLWAY #2 NEAR MCLENNAN

STATION NUMBER: 07BF916

LOCATION: NE 19-77-17-W5 - From Hwy. #749, 8 km on Hwy. #679, 10 km N to South Heart River Dams area, left ~1.5 km NNW to spillway.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1989 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Requested by Development & Operations Division.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Unnamed Lake Below Spillway #2 near McLennan

Station No. 07BF916

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9								622.470					9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17					622.476*								17
18										622.411*			18
19							622.530*		622.418				19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27						622.542*							27
28								622.420*	622.398*				28
29													29
30													30
31													31
TOT					622.476	622.542	622.530	1244.890	1244.816	622.411			TOT
MEAN					622.476x	622.542x	622.530x	622.445x	622.408x	622.411x			MEAN
MAX					622.476	622.542	622.530	622.470	622.418	622.411			MAX
MIN					622.476	622.542	622.530	622.420	622.398	622.411			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month   - Actual Surveyed Water Level
I - Ice Level   E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 622.542 Metres on JUN 27
Minimum Observed Daily Water Level: 622.398 Metres on SEP 28

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 622.542 Metres on 1990.06.27
Minimum Observed Daily Water Level: 622.398 Metres on 1990.09.28

Location: LSD NE Sec. 19 Tp. 077 Rge. 17 W5
Latitude: 55 41'   Longitude: 116 37'

From Hwy #749, 8 km W on Hwy #679, 10 km N to South Heart River Dams area, left ~1.5 km NNW to spillway.

Gauge Type: Outside Staff Gauge.
Period of Record: 1989-1990
Hydrographic Survey Map Available? NO
Requested by Development & Operations Division.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: UPDIKE LAKE NEAR DEMMITT

STATION NUMBER: 07FD914

LOCATION: 74-12-W6 - From Demmitt, approximately 6.5 km Southeast on Highway #2, North through farm yard and field to lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1976 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Updike Lake near Demmitt

Station No. 07FD914

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15										794.566*			15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23	794.439*												23
24					794.485								24
25													25
26													26
27													27
28													28
29													29
30							794.638*						30
31													31
TOT	794.439				794.485		794.638			794.566			TOT
MEAN	794.439x				794.485x		794.638x			794.566x			MEAN
MAX	794.439				794.485		794.638			794.566			MAX
MIN	794.439				794.485		794.638			794.566			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 794.638 Metres on JUL 30
Minimum Observed Daily Water Level: 794.439 Metres on JAN 23

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 794.896 Metres on 1983.08.11
Minimum Observed Daily Water Level: 793.766 Metres on 1979.12.06

Location: LSD SW Sec. 28 Tp. 074 Rge. 12 W6
Latitude: 55 26' Longitude: 119 47'

From Demmitt, ~6.5 km SE on Hwy #2, N through farmyard and field to lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1976-1990
Hydrographic Survey Map Available? NO

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	UPPER MANN LAKE NEAR ASHMONT	
STATION NUMBER:	06AA911	
LOCATION:	59-11-W4 -	West side of Upper Mann Lake, 2.4 km Northeast of Ashmont.
GAUGE TYPE:	Staff Gauge.	
PERIOD OF RECORD:	1962 - 1990	

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

UPPER MANN LAKE NEAR ASHMONT

STATION NO. 06AA911

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2								614.929					2
3										614.820			3
4													4
5													5
6								614.909					6
7													7
8							615.010						8
9							615.008	614.899					9
10													10
11							615.000						11
12													12
13							614.991						13
14													14
15													15
16													16
17					615.056								17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27						614.970							27
28													28
29													29
30													30
31	614.987												31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 615.056 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 614.820 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 616.324 METRES ON MAY 19/72
MIN. OBSERVED WATER LEVEL, 614.820 METRES ON OCT 03/90

LAKE - STATION DESCRIPTION

STATION NAME:	UPPER THERIEN LAKE NEAR ST. PAUL
STATION NUMBER:	05ED907
LOCATION:	58-09-W4 - Northwest side of Upper Therien Lake, on the South side of St. Paul.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1973 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic Elevation verified in 1984.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

UPPER THERIEN LAKE NEAR ST.PAUL

STATION NO. 05ED907

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16							635.652						16
17					635.688								17
18													18
19													19
20													20
21													21
22													22
23										635.425			23
24	635.554 B												24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 635.688 METRES ON MAY 17

MINIMUM OBSERVED DAILY WATER LEVEL, 635.425 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 636.490 METRES ON JUL 11/74
MIN. OBSERVED WATER LEVEL, 635.425 METRES ON OCT 23/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: VERMILION RIVER AT TWO HILLS (HIGHWAY #36)

STATION NUMBER: 05EE908

LOCATION: 54-12-W4 - Highway #36 bridge just South of Two Hills.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation revised in 1983. Add 0.068 m to published data prior to 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

VERMILION RIVER AT TWO HILLS (HIGHWAY # 36)

STATION NO. 05EE908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2					599.403			598.988					2
3				600.216									3
4													4
5													5
6				600.216									6
7													7
8													8
9													9
10				600.089	599.326			598.898					10
11													11
12				599.987									12
13													13
14													14
15											598.799		15
16							599.202						16
17							599.208	598.918					17
18				599.708			599.198						18
19							599.188						19
20				599.606			599.178						20
21													21
22													22
23							599.138	598.868		598.798			23
24	599.098 B			599.479									24
25													25
26							599.138						26
27				599.428									27
28													28
29													29
30								598.863					30
31							599.018						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 600.216 METRES ON APR 3

MINIMUM OBSERVED DAILY WATER LEVEL, 598.798 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 602.018 METRES ON APR 24/74
MIN. OBSERVED WATER LEVEL, 598.512 METRES ON MAR 12/80

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	VERMILION RIVER FOUR MILES WEST OF TWO HILLS
STATION NUMBER:	05EE909
LOCATION:	54-13-W4 - 6.4 km West and 3.2 km South of Two Hills.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1972 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic elevation verified in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

VERMILION RIVER FOUR MILES WEST OF TWO HILLS

STATION NO. 05EE909

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2					599.348			599.248					2
3				600.258									3
4				600.298									4
5				600.298									5
6				600.288									6
7													7
8													8
9													9
10				600.118	599.352			599.088					10
11													11
12				600.028									12
13													13
14													14
15													15
16							599.518				598.923		16
17							599.498	599.063					17
18				599.718			599.498						18
19							599.473						19
20				599.598									20
21													21
22													22
23							599.398			598.891			23
24	599.042 B			599.508				598.998					24
25													25
26							599.348						26
27				599.368									27
28													28
29													29
30			599.908					598.978					30
31							599.268						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 600.298 METRES ON APR 4

MINIMUM OBSERVED DAILY WATER LEVEL, 598.891 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 602.224 METRES ON APR 25/74
MIN. OBSERVED WATER LEVEL, 598.600 METRES ON JAN 31/77

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	VERMILION RIVER NEAR MORECAMBE
STATION NUMBER:	05EE906
LOCATION:	54-10-W4 - 3.2 km South of Morecambe.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is an Alberta Environment Control Structure on this lake. (Gated concrete weir; F.S.L. = 598.93 m). Geodetic elevation verified in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

VERMILION RIVER NEAR MORECAMBE

STATION NO. 05EE906

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2					599.349			598.640			598.797		2
3				599.480									3
4				599.580									4
5						599.198							5
6				599.760									6
7													7
8								598.737					8
9													9
10				599.829	599.322			598.729					10
11													11
12				599.809									12
13													13
14											598.777		14
15								598.737					15
16							599.037						16
17							599.026	598.742					17
18							598.997						18
19							598.967						19
20				599.549									20
21													21
22													22
23					599.178			598.677					23
24	599.112 B			599.449			598.767			598.759			24
25													25
26							598.667		598.827				26
27				599.369			598.640						27
28													28
29													29
30				599.389			598.552	598.717					30
31							598.552						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 599.829 METRES ON APR 10

MINIMUM OBSERVED DAILY WATER LEVEL, 598.552 METRES ON JUL 30
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 601.246 METRES ON APR 25/74
MIN. OBSERVED WATER LEVEL, 597.222 METRES ON JAN 31/77

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	VERMILION RIVER NEAR MUSIDORA
STATION NUMBER:	05EE907
LOCATION:	54-11-W4 - 0.8 km East and 0.8 km South of Musidora.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1971 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation revised in 1983. Add 0.087 m to published data prior to 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

VERMILION RIVER NEAR MUSIDORA

STATION NO. 05EE907

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2					599.385								2
3				599.625									3
4				599.765									4
5													5
6				599.975									6
7													7
8													8
9													9
10				599.975	599.350								10
11													11
12				599.905									12
13													13
14													14
15													15
16							599.090				598.815		16
17							599.073						17
18							599.050						18
19													19
20				599.585									20
21													21
22													22
23										598.826			23
24	599.107 B			599.485			598.875						24
25													25
26													26
27				599.415									27
28													28
29													29
30				599.415									30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 599.975 METRES ON APR 6

MINIMUM OBSERVED DAILY WATER LEVEL, 598.815 METRES ON NOV 16
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 601.610 METRES ON APR 25/74
MIN. OBSERVED WATER LEVEL, 598.734 METRES ON JUL 07/81

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: VICTOR LAKE NEAR GRANDE CACHE

STATION NUMBER: 07GA905

LOCATION: 56-08-W6 - From Grande Cache town limits, 1.6 km Southeast on Highway #40, 0.6 km Southwest to pumphouse on lake.

GAUGE TYPE: Staff Gauge and Measuring Tape.

PERIOD OF RECORD: 1968; 1970 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Town of Grande Cache control structure on this lake, that also controls Grande Cache Lake.
Hydrographic Survey 1971.
Measuring Tape readings in Grande Cache pump house began 1989. Staff Gauge readings in lake began in 1990.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Victor Lake near Grande Cache

Station No. 07GA905

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	1117.608	1117.589	1117.569	1117.573	1117.597	1117.719	1117.666	1117.591	1117.500	1117.447*	1117.465	1117.511	1
2	1117.607	1117.588	1117.569	1117.574	1117.592	1117.741	1117.676	1117.591	1117.499		1117.462	1117.508	2
3	1117.599*	1117.591	1117.569	1117.578	1117.585	1117.739	1117.702	1117.589	1117.500		1117.462	1117.507	3
4	1117.607	1117.591	1117.569	1117.578	1117.588	1117.734	1117.699	1117.600	1117.478		1117.462	1117.508	4
5	1117.608	1117.592	1117.569	1117.579	1117.582	1117.726	1117.700	1117.599	1117.476		1117.463	1117.509	5
6	1117.608	1117.587	1117.565	1117.578	1117.582	1117.722	1117.712	1117.598	1117.475		1117.461	1117.509	6
7	1117.608	1117.590	1117.574	1117.579	1117.581	1117.722	1117.714	1117.549			1117.461	1117.509	7
8	1117.608	1117.589	1117.579	1117.578	1117.584	1117.718	1117.714	1117.533	1117.459		1117.461	1117.511	8
9	1117.605	1117.589	1117.586	1117.585	1117.588	1117.710	1117.719*	1117.531	1117.453		1117.459	1117.513	9
10	1117.606	1117.589	1117.584	1117.582	1117.592	1117.709	1117.703	1117.528	1117.450		1117.460	1117.511	10
11	1117.602	1117.583	1117.581	1117.583	1117.594	1117.709	1117.697	1117.522	1117.450		1117.472	1117.512	11
12	1117.604	1117.588	1117.579	1117.587	1117.600	1117.778	1117.693	1117.521	1117.451		1117.479	1117.510	12
13	1117.602	1117.590	1117.580	1117.587	1117.613	1117.815	1117.681	1117.514	1117.450		1117.487	1117.511	13
14	1117.602	1117.591	1117.581	1117.588	1117.618	1117.812	1117.672	1117.515	1117.450		1117.487	1117.508	14
15	1117.605	1117.589	1117.583	1117.590	1117.618	1117.802	1117.671	1117.512	1117.450		1117.484	1117.507	15
16	1117.600	1117.588	1117.583	1117.592	1117.619	1117.783	1117.662	1117.520	1117.451		1117.485	1117.511	16
17	1117.598	1117.589	1117.583	1117.587	1117.625	1117.767	1117.660	1117.522	1117.491		1117.487	1117.509	17
18	1117.597	1117.589	1117.583	1117.578	1117.637	1117.753	1117.659	1117.532	1117.496		1117.486	1117.513	18
19	1117.597	1117.590	1117.583	1117.585	1117.638	1117.752	1117.653	1117.522	1117.498		1117.482	1117.514	19
20	1117.592	1117.586	1117.583	1117.584	1117.642	1117.737	1117.653	1117.527	1117.493		1117.485	1117.516	20
21	1117.592	1117.579	1117.582	1117.582	1117.646	1117.724	1117.653	1117.521	1117.489		1117.486	1117.520	21
22	1117.595	1117.582	1117.582	1117.586	1117.645	1117.721	1117.601	1117.516	1117.481		1117.487	1117.516	22
23	1117.587	1117.577	1117.585	1117.583	1117.645	1117.717	1117.601	1117.511	1117.481		1117.496	1117.514	23
24	1117.592	1117.575	1117.572	1117.584	1117.647	1117.695	1117.601	1117.502	1117.473		1117.524	1117.517	24
25	1117.594	1117.576	1117.577	1117.581	1117.650	1117.696	1117.603	1117.501	1117.469		1117.506	1117.516	25
26	1117.590	1117.575	1117.576	1117.588	1117.669	1117.680	1117.603	1117.502	1117.468		1117.527	1117.512	26
27	1117.589	1117.567	1117.582	1117.590	1117.680	1117.675	1117.603	1117.501			1117.506	1117.518	27
28	1117.590	1117.564	1117.577	1117.590	1117.692	1117.675	1117.603				1117.512	1117.516	28
29	1117.592		1117.576	1117.592	1117.688	1117.665	1117.603	1117.500			1117.513	1117.517	29
30	1117.592		1117.575	1117.592	1117.687	1117.666	1117.601	1117.501			1117.521	1117.511	30
31	1117.589		1117.573		1117.706		1117.591	1117.501				1117.516	31
TOT	34645.565	31292.373	34644.909	33527.513	34646.430	33531.862	34647.369	33525.972	27936.831	1117.447	33524.528	34642.880	TOT
MEAN	1117.599	1117.585	1117.578	1117.584	1117.627	1117.729	1117.657	1117.532x	1117.473x	1117.447x	1117.484	1117.512	MEAN
MAX	1117.608	1117.592	1117.586	1117.592	1117.706	1117.815	1117.719	1117.600	1117.500	1117.447	1117.527	1117.520	MAX
MIN	1117.587	1117.564	1117.565	1117.573	1117.581	1117.665	1117.591	1117.500	1117.450	1117.447	1117.459	1117.507	MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1117.815 Metres on JUN 13
Minimum Observed Daily Water Level:1117.447 Metres on OCT 1

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1117.815 Metres on 1990.06.13
Minimum Observed Daily Water Level:1115.784 Metres on 1975.09.24

Location: LSD SE Sec. 34 Tp. 056 Rge. 08 W6
Latitude: 53 53'   Longitude: 119 05'

From Grande Cache town limits, ~1.6 km SE on Hwy. #40, 0.6 km SW to Town of Grande Cache pump house on lake.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1968-1990
Hydrographic Survey Map Available? YES
Town of Grande Cache control structure.Structure also controls high water levels in Grande Cache Lake.
Hydrographic Survey 1971.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: VINCENT LAKE NEAR ASHMONT

STATION NUMBER: 05ED913

LOCATION: 59-09-W4 - North side of Vincent Lake, 0.5 km North and 14.5 km East of Ashmont.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1966 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

VINCENT LAKE NEAR ASHMONT

STATION NO. 05ED913

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						635.817	635.750	635.715	635.664				1
2						635.817	635.745		635.653				2
3						635.807	635.795	635.712		635.562			3
4						635.813	635.798						4
5						635.793	635.795	635.692	635.643				5
6						635.788	635.800						6
7						635.788	635.790						7
8						635.788	635.790	635.681	635.637				8
9								635.681					9
10						635.783	635.785	635.674					10
11							635.790	635.673					11
12						635.808		635.672	635.642				12
13						635.798	635.776	635.664					13
14						635.803	635.766	635.664					14
15						635.788	635.761	635.661					15
16					635.837		635.756						16
17					635.826	635.780	635.756	635.680					17
18					635.836	635.774	635.741	635.685					18
19					635.831	635.774	635.743	635.680					19
20					635.831	635.768	635.740		635.601				20
21						635.767	635.736	635.680	635.601				21
22					635.822	635.779	635.736	635.680					22
23					635.827	635.767	635.736	635.675					23
24					635.822	635.760	635.736	635.669					24
25					635.822	635.759	635.731	635.664					25
26					635.822		635.735	635.669	635.591				26
27						635.757	635.737	635.659					27
28					635.822	635.739		635.659					28
29					635.812	635.759	635.722	635.647	635.584				29
30					635.822	635.755		635.649					30
31	635.677				635.832		635.717	635.654					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 635.837 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 635.562 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 636.727 METRES ON JUL 12/74
MIN. OBSERVED WATER LEVEL, 635.562 METRES ON OCT 03/90

LAKE - STATION DESCRIPTION

STATION NAME:	WAKAMAO LAKE NEAR CLYDE
STATION NUMBER:	05EC903
LOCATION:	59-24-W4 - South side of lake, 7.2 km East of Clyde.
GAUGE TYPE:	Staff Gauge
PERIOD OF RECORD:	1956-1962; 1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: There is a Ducks Unlimited Control Structure on this lake. A steel sheet pile weir was constructed in 1980. (F.S.L. = 621.59 m)

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WAKOMAO LAKE NEAR CLYDE

STATION NO. 05EC903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8					621.466								8
9							621.358						9
10										621.191			10
11													11
12													12
13													13
14													14
15													15
16													16
17	621.363												17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 621.466 METRES ON MAY 8

MINIMUM OBSERVED DAILY WATER LEVEL, 621.191 METRES ON OCT 10
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 622.524 METRES ON JUL 19/74
MIN. OBSERVED WATER LEVEL, 621.098 METRES ON JUL 04/88

LAKE - STATION DESCRIPTION

STATION NAME: WATT LAKE NEAR TWO HILLS

STATION NUMBER: 05EE910

LOCATION: 55-13-W4 - East side of Watt's Lake, 11.3 km West and 1.6 km South of Two Hills.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1972 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation verified in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WATT LAKE NEAR TWO HILLS

STATION NO. 05EE910

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						600.043					599.748		1
2					600.113								2
3				599.978									3
4				600.028			599.992						4
5				600.053									5
6				600.073									6
7													7
8													8
9													9
10				600.115	600.108								10
11													11
12				600.128									12
13													13
14													14
15													15
16							599.948						16
17								599.868					17
18				600.128			599.948						18
19													19
20				600.128									20
21													21
22													22
23					600.068					599.773			23
24	599.409 B			600.128									24
25													25
26							599.928		599.778				26
27				600.128									27
28						599.925							28
29													29
30				600.128				599.838					30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 600.128 METRES ON APR 12

MINIMUM OBSERVED DAILY WATER LEVEL, 599.409 METRES ON JAN 24
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 601.556 METRES ON MAY 09/74
MIN. OBSERVED WATER LEVEL, 599.409 METRES ON JAN 24/90

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME:	WAVY LAKE NEAR STROME
STATION NUMBER:	05FB902
LOCATION:	45-15-W4 - North side of Wavy Lake, 11.3 km North of Strome.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969; 1975 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic elevation verified in 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WAVY LAKE NEAR STROME

STATION NO. 05FB902

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9					685.438								9
10													10
11													11
12										685.648			12
13													13
14													14
15													15
16													16
17													17
18							685.768						18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 685.768 METRES ON JUL 18

MINIMUM OBSERVED DAILY WATER LEVEL, 685.438 METRES ON MAY 9
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 686.754 METRES ON MAR 11/80
MIN. OBSERVED WATER LEVEL, DRY ON OCT 26/89

LAKE - STATION DESCRIPTION

STATION NAME:	WEMBLEY LAKE NEAR WEMBLEY
STATION NUMBER:	07GE914
LOCATION:	71-08-W6 - From Intersection of 97 Avenue and 101 Street in Wembley, approximately 200 m West to lake.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1976 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Lake dry in October 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Wembley Lake near Wembley

DAILY WATER LEVEL IN METRES FOR 1990

Station No. 07GE914

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4										727.446*			4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23							727.656*						23
24	727.201I				727.270*								24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOT	727.201				727.270		727.656			727.446			TOT
MEAN	727.201x				727.270x		727.656x			727.446x			MEAN
MAX	727.201				727.270		727.656			727.446			MAX
MIN	727.201				727.270		727.656			727.446			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 727.656 Metres on JUL 23
Minimum Observed Daily Water Level: 727.201 Metres on JAN 24

Location: LSD NW Sec. 15 Tp. 071 Rge. 08 W6
Latitude: 55 09' Longitude: 119 09'

From intersection of 97 Av & 101 St in Wembley, W 0.2 km to lake.

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 727.756 Metres on 1983.07.19
Minimum Observed Daily Water Level: 726.989 Metres on 1989.05.17
Last Observed Dry on 1989.07.31 Observed Dry 2 x
Gauge Type: None. Level Established by Surveying.
Period of Record: 1976-1990
Hydrographic Survey Map Available? NO

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	WHITEFISH LAKE NEAR VILNA
STATION NUMBER:	06AA915
LOCATION:	62-13-W4 - South side of Whitefish Lake, 3.2 km East and 24.1 km North of Vilna.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1958; 1960-1961; 1965; 1968 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	A rock and timber crib weir was constructed in 1950 but washed out before 1971.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WHITEFISH LAKE NEAR VILNA

STATION NO. 06AA915

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		577.116				577.206	577.197	577.168	577.106	577.054			1
2						577.206		577.178	577.106				2
3						577.206		577.168	577.106				3
4						577.196	577.257	577.168	577.106	577.028			4
5						577.197	577.257	577.168	577.106				5
6						577.197	577.252	577.158	577.106				6
7						577.197	577.247	577.158	577.106				7
8						577.197	577.247	577.158	577.106				8
9						577.197	577.247	577.153	577.106				9
10						577.197	577.237	577.147	577.105				10
11						577.197	577.237	577.147	577.105				11
12						577.207	577.227	577.147	577.105				12
13							577.227		577.105				13
14						577.207	577.228		577.105				14
15						577.202	577.223	577.147	577.095				15
16						577.197	577.218	577.147	577.095				16
17					577.216	577.197	577.218	577.147					17
18					577.216	577.197	577.208	577.142	577.095				18
19					577.216	577.197	577.208	577.137	577.095				19
20					577.216	577.197	577.198	577.137	577.085				20
21					577.216	577.197	577.198	577.137	577.085				21
22					577.216	577.192	577.198	577.117	577.080				22
23					577.216	577.187	577.188		577.075				23
24					577.216	577.187	577.188		577.075				24
25					577.216	577.187	577.178	577.117	577.075				25
26					577.216	577.187	577.178	577.116	577.064				26
27					577.216		577.173	577.116	577.064				27
28					577.216		577.168	577.116	577.059				28
29					577.216	577.197	577.168	577.106	577.054				29
30					577.216	577.197	577.168	577.106	577.054				30
31					577.206		577.168						31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 577.257 METRES ON JUL 4

MINIMUM OBSERVED DAILY WATER LEVEL, 577.028 METRES ON OCT 4
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 578.102 METRES ON AUG 29/75
MIN. OBSERVED WATER LEVEL, 576.709 METERS ON SEP 29/65

LAKE - STATION DESCRIPTION

STATION NAME: WHITFORD LAKE NEAR VEGREVILLE

STATION NUMBER: 05EC904

LOCATION: 56-15-W4 - Northeast side of Whitford Lake, 41.8 km North and 11.3 km West of Vegreville.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1969 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic elevation verified in 1982.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WHITFORD LAKE NEAR VEGREVILLE

STATION NO. 05EC904

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10					625.485								10
11													11
12													12
13													13
14													14
15													15
16							625.354						16
17													17
18													18
19													19
20													20
21													21
22													22
23										625.197			23
24	625.256 B												24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 625.485 METRES ON MAY 10

MINIMUM OBSERVED DAILY WATER LEVEL, 625.197 METRES ON OCT 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 626.544 METRES ON JUN 06/74
MIN. OBSERVED WATER LEVEL, 625.178 METRES ON OCT 20/89

B - ICE CONDITIONS

LAKE - STATION DESCRIPTION

STATION NAME: WHITHAM LAKE NEAR DEMMITT

STATION NUMBER: 07GD905

LOCATION: SW 14-74-12-W6 - From Demmitt, 12 km Southeast on Highway #2 to control structure 75 m North of highway.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: There is a Ducks Unlimited control structure on this lake (Anderson Lake Project) constructed in 1951; rebuilt in 1983. Geodetic elevation established in 1988. Data partially contributed by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Whitham Lake near Demmitt

Station No. 07GD905

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1											792.354		1
2													2
3				792.634									3
4				792.474									4
5						792.104					792.074		5
6													6
7													7
8									792.424				8
9													9
10													10
11										792.434			11
12						793.098E				792.434			12
13													13
14					792.124					792.434			14
15						792.990*				792.408*			15
16													16
17													17
18						792.834							18
19													19
20					792.164								20
21						792.634							21
22													22
23	792.557*			792.684									23
24					792.161*								24
25				792.584									25
26													26
27						792.254							27
28													28
29							792.444						29
30							792.416*						30
31													31
TOT	792.557			3170.376	2376.449	4755.914	1584.860		792.424	3169.710	1584.428		TOT
MEAN	792.557x			792.594x	792.150x	792.652x	792.430x		792.424x	792.427x	792.214x		MEAN
MAX	792.557			792.684	792.164	793.098	792.444		792.424	792.434	792.354		MAX
MIN	792.557			792.474	792.124	792.104	792.416		792.424	792.408	792.074		MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
- Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990
Maximum Observed Daily Water Level: 793.098 Metres on JUN 12
Minimum Observed Daily Water Level: 792.074 Metres on NOV 5

HISTORICAL SUMMARY
Maximum Observed Daily Water Level: 793.098 Metres on 1990.06.12
Minimum Observed Daily Water Level: 792.002 Metres on 1988.10.06

Location: LSD SW Sec. 14 Tp. 074 Rge. 12 W6
Latitude: 55 24' Longitude: 119 44'

From Hythe, 14 km NW on Hwy #2 to D.U. control structure on N side of Hwy.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited control structure (Anderson Lake Project) constructed in 1951. Reconstructed in 1983. Geodetic Elevation established 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME:	WHITNEY LAKE NEAR ELK POINT
STATION NUMBER:	05ED908
LOCATION:	56-04-W4 - West side of Whitney Lake, 22.5 km East and 7.7 km South of Elk Point.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1965 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WHITNEY LAKE NEAR ELK POINT

STATION NO. 05ED908

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1							566.914	566.917	566.870				1
2						566.985	566.905						2
3						566.977		566.904		566.779			3
4						566.976	566.950	566.894					4
5							566.950	566.894					5
6						566.976	566.945	566.890	566.851				6
7						566.977	566.945						7
8						566.967	566.945	566.891	566.841				8
9						566.965	566.940	566.895	566.841				9
10						566.964	566.935	566.895					10
11						566.962	566.931	566.895					11
12								566.895					12
13							566.931	566.891	566.842				13
14								566.886	566.837				14
15								566.881	566.832				15
16						566.958	566.921	566.896					16
17					567.014	566.946		566.901					17
18							566.921	566.902					18
19					567.004	566.928		566.892					19
20								566.907					20
21					567.015		566.912	566.907					21
22					567.017	566.926	566.912						22
23					567.000		566.912						23
24						566.914	566.912	566.878					24
25					567.000	566.912	566.912	566.878					25
26					567.010	566.909	566.912	566.878					26
27					567.005								27
28					566.995	566.929	566.913	566.869					28
29					567.000		566.913	566.859					29
30						566.919	566.903						30
31	566.942						566.903	566.869					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 567.017 METRES ON MAY 22

MINIMUM OBSERVED DAILY WATER LEVEL, 566.779 METRES ON OCT 3
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 567.910 METRES ON JUL 14/71
MIN. OBSERVED WATER LEVEL, 566.779 METRES ON OCT 03/90

LAKE - STATION DESCRIPTION

STATION NAME:	WILDHORSE LAKE NEAR HINTON
STATION NUMBER:	07AD904
LOCATION:	49-26-W5 - From junction of Highway #40, 10.8 km Southwest on Highway #16, 2.1 km Northwest, 2.0 km Southwest to Forestry Recreation Area.
GAUGE TYPE:	None. Level established by surveying.
PERIOD OF RECORD:	1969 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	YES
REMARKS:	Bench Mark elevations revised in 1988. Hydrographic Survey 1971.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Wildhorse Lake near Hinton

Station No. 07AD904

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						1149.869	1149.883			1149.916			1
2						1149.874	1149.899						2
3						1149.877		1149.983					3
4	1149.758*					1149.881		1149.979					4
5								1149.977					5
6							1149.992	1149.973					6
7						1149.876	1150.008						7
8						1149.866	1150.010						8
9					1149.786*	1149.862	1150.013						9
10						1149.861	1150.004*	1149.959					10
11					1149.804	1149.867		1149.955					11
12					1149.807		1150.009	1149.951					12
13					1149.811		1150.005	1149.950					13
14					1149.811	1149.919	1150.003						14
15						1149.921	1149.999						15
16						1149.923	1150.001	1149.947					16
17						1149.922		1149.949					17
18					1149.820	1149.922		1149.947					18
19					1149.822		1149.995	1149.945					19
20					1149.822		1149.995	1149.937					20
21					1149.828	1149.919							21
22						1149.915	1149.985						22
23						1149.907	1149.985	1149.951					23
24					1149.825	1149.906		1149.955					24
25					1149.827	1149.902		1149.951					25
26					1149.834		1150.005	1149.971					26
27					1149.834		1150.003	1149.969					27
28					1149.836	1149.892	1150.005						28
29						1149.889	1150.005						29
30						1149.883	1149.999						30
31					1149.855								31
TOT	1149.758				17247.322	25297.653	24149.803	20699.249		1149.916			TOT
MEAN	1149.758x				1149.821x	1149.893x	1149.991x	1149.958x		1149.916x			MEAN
MAX	1149.758				1149.855	1149.923	1150.013	1149.983		1149.916			MAX
MIN	1149.758				1149.786	1149.861	1149.883	1149.937		1149.916			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1150.013 Metres on JUL 9
Minimum Observed Daily Water Level:1149.758 Metres on JAN 4

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1150.431 Metres on 1976.05.04
Minimum Observed Daily Water Level:1149.553 Metres on 1977.01.26

Location: LSD SE Sec. 31 Tp. 049 Rge. 26 W5
Latitude: 53 16'   Longitude: 117 47'

From Hwy #40 junction, 10.8 km SW on Hwy #16, 2.1 km WNW, 2 km SW to Forestry Recreation Area.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1969-1990
Hydrographic Survey Map Available? YES
Hydrographic Survey 1971. Bench Mark elevations revised 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: WINDSOR LAKE NEAR BASHAW

STATION NUMBER: 05FA914

LOCATION: 42-22-W4 - Approximately 8 km West and 1.6 km North.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1980 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation verified in 1983.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WINDSOR LAKE NEAR BASHAW

STATION NO. 05FA914

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7					811.034								7
8													8
9													9
10													10
11													11
12										811.182			12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20							811.382						20
21													21
22													22
23	810.764												23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 811.382 METRES ON JUL 20

MINIMUM OBSERVED DAILY WATER LEVEL, 810.764 METRES ON JAN 23
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 811.492 METRES ON MAY 12/87
MIN. OBSERVED WATER LEVEL, 810.151 METRES ON AUG 28/84

LAKE - STATION DESCRIPTION

STATION NAME:	WIZARD LAKE NEAR LEDUC
STATION NUMBER:	05DF901
LOCATION:	48-27-W4 - 16.1 km South and 3.2 km West of Calmar.
GAUGE TYPE:	None prior to 1990, level established by surveying. Staff Gauge was installed in 1990.
PERIOD OF RECORD:	1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Geodetic Elevation verified in 1987.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WIZARD LAKE NEAR LEDUC

STATION NO. 05DF901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1								784.096					1
2								784.091					2
3								784.075					3
4								784.069					4
5								784.059					5
6							784.677	784.047					6
7		783.985			784.177			784.039					7
8								784.025					8
9								784.013					9
10								784.007					10
11								783.999					11
12								783.991					12
13								783.981					13
14								783.976					14
15								783.968					15
16								783.968					16
17													17
18										783.777			18
19													19
20													20
21								783.938					21
22								783.935					22
23								783.930					23
24							784.195	783.924					24
25								783.918					25
26								783.915					26
27							784.167						27
28													28
29								783.903		783.760			29
30													30
31								783.907					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 784.677 METRES ON JUL 6

MINIMUM OBSERVED DAILY WATER LEVEL, 783.760 METRES ON OCT 29
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 784.677 METRES ON JUL 06/90
MIN. OBSERVED WATER LEVEL, 783.586 METRES ON JUL 22/68

LAKE - STATION DESCRIPTION

STATION NAME: WOLF LAKE NEAR BONNYVILLE

STATION NUMBER: 06AB903

LOCATION: 65-07-W4 - South side of Wolf Lake, 11.3 km West and 45.1 km North of Bonnyville.

GAUGE TYPE: Staff Gauge.

PERIOD OF RECORD: 1968 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS:

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

WOLF LAKE NEAR BONNYVILLE

STATION NO. 06AB903

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1						597.509	597.428		597.364				1
2						597.489	597.428		597.364	597.300			2
3						597.489			597.354				3
4						597.489			597.355				4
5						597.489			597.350				5
6							597.468						6
7							597.468						7
8						597.474	597.468						8
9						597.469	597.468						9
10						597.469	597.468	597.368					10
11						597.479		597.368					11
12						597.479		597.368					12
13							597.463	597.369					13
14							597.458						14
15						597.469	597.453						15
16					597.561	597.469	597.448						16
17						597.468		597.360					17
18					597.539	597.468	597.446	597.360					18
19					597.549	597.468		597.355					19
20					597.549		597.435	597.356					20
21					597.549		597.435	597.351					21
22					597.539	597.453	597.435						22
23						597.448	597.430						23
24							597.430	597.337					24
25					597.534	597.438		597.332					25
26					597.529	597.433		597.332					26
27					597.529		597.425	597.332					27
28					597.529		597.425	597.328					28
29						597.433	597.420						29
30	597.413					597.428	597.415						30
31							597.410	597.364					31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 597.561 METRES ON MAY 16

MINIMUM OBSERVED DAILY WATER LEVEL, 597.300 METRES ON OCT 2
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 597.716 METRES ON JUL 05/75
MIN. OBSERVED WATER LEVEL, 597.091 METRES ON OCT 16/69

LAKE - STATION DESCRIPTION

STATION NAME:	WOLF LAKE NEAR EDSON
STATION NUMBER:	07AG906
LOCATION:	49-15-W5 - From Edson, 26 km East on Highway #16, 51 km South to AFS Recreation area.
GAUGE TYPE:	Staff Gauge.
PERIOD OF RECORD:	1981 - 1990
HYDROGRAPHIC SURVEY MAP AVAILABLE:	NO
REMARKS:	Geodetic Elevation established 1982. Bench mark elevations revised in 1988.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Wolf Lake near Edson

Station No. 07AG906

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1						1049.103	1049.047		1048.997				1
2						1049.099	1049.057		1048.997				2
3						1049.093	1049.169	1049.035		1048.943*			3
4								1049.033					4
5	1049.107*												5
6							1049.233	1049.025					6
7							1049.235	1049.017					7
8						1049.081	1049.213						8
9					1049.099*	1049.077	1049.189						9
10						1049.071	1049.163	1048.999	1048.975				10
11						1049.073	1049.148*	1048.995	1048.973				11
12						1049.167		1048.993					12
13					1049.099			1048.997					13
14							1049.113	1048.993					14
15					1049.097		1049.101						15
16						1049.153	1049.101						16
17						1049.137	1049.099	1048.985					17
18					1049.095	1049.117		1048.985	1048.975				18
19					1049.091	1049.103		1048.979					19
20							1049.087	1048.977					20
21					1049.101		1049.083	1048.973					21
22							1049.079						22
23						1049.057	1049.077						23
24						1049.057	1049.075	1048.975					24
25					1049.123	1049.045		1048.973					25
26					1049.125	1049.047							26
27					1049.127		1049.061	1048.977					27
28					1049.127		1049.057	1048.975					28
29						1049.045	1049.053						29
30													30
31							1049.049	1048.999					31
TOT	1049.107				10491.084	17834.525	23080.489	19930.885	5244.917	1048.943			TOT
MEAN	1049.107x				1049.108x	1049.090x	1049.113x	1048.994x	1048.983x	1048.943x			MEAN
MAX	1049.107				1049.127	1049.167	1049.235	1049.035	1048.997	1048.943			MAX
MIN	1049.107				1049.091	1049.045	1049.047	1048.973	1048.973	1048.943			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
* - Actual Surveyed Water Level
I - Ice Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level:1049.235 Metres on JUL 7
Minimum Observed Daily Water Level:1048.943 Metres on OCT 3

HISTORICAL SUMMARY

Maximum Observed Daily Water Level:1049.314 Metres on 1989.08.04
Minimum Observed Daily Water Level:1048.786 Metres on 1984.09.11

Location: LSD SE Sec. 11 Tp. 049 Rge. 15 W5
Latitude: 53 13'   Longitude: 116 05'

From Edson, 26 km E on Hwy #16, 51 km S on gravel road to APS recreation area, 25 km S of Minnow Lake.

Gauge Type: Outside Staff Gauge.
Period of Record: 1981-1990
Hydrographic Survey Map Available? NO
Geodetic Elevation established 1982. Bench Mark elevations revised in 1988.

Approved by JWA on 1991.05.10

LAKE - STATION DESCRIPTION

STATION NAME: YELLOW LAKE (STATION 0)

STATION NUMBER: 05AJ901

LOCATION: 10-13-W4 - 3.2 km South of Grassy Lake.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1977 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: YES

REMARKS: Records available for additional stations on this lake.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
EDMONTON, ALTA

YELLOW LAKE (STATION O)

STATION NO. 05AJ901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3				783.866									3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13								783.681					13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31										783.721			31
TOTAL													TOTAL
MEAN													MEAN
MAX													MAX
MIN													MIN

SUMMARY FOR THE YEAR 1990

MAXIMUM OBSERVED DAILY WATER LEVEL, 783.866 METRES ON APR 3

MINIMUM OBSERVED DAILY WATER LEVEL, 783.681 METRES ON AUG 13
WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HISTORICAL SUMMARY

MAX. OBSERVED WATER LEVEL, 784.004 METRES ON APR 07/83
MIN. OBSERVED WATER LEVEL, 781.937 METRES ON AUG 03/77

LAKE - STATION DESCRIPTION

STATION NAME: YOKE LAKE NEAR GOODFARE

STATION NUMBER: 07GD903

LOCATION: NE 7-72-11-W6 - From Goodfare, 3.2 km East on Secondary #671, 3.2 km South, 0.2 km West to field access, South 0.2 km to structure.

GAUGE TYPE: None. Level established by surveying.

PERIOD OF RECORD: 1987 - 1990

HYDROGRAPHIC SURVEY MAP AVAILABLE: NO

REMARKS: Geodetic elevation established in 1988.
There is a Ducks Unlimited control structure on this lake constructed in 1982. Data partially contributed by Ducks Unlimited.

ALBERTA ENVIRONMENT
WATER SURVEY SECTION
GRANDE PRAIRIE, AB

Yoke Lake near Goodfare

Station No. 07GD903

DAILY WATER LEVEL IN METRES FOR 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1													1
2													2
3													3
4				800.487									4
5													5
6													6
7									800.747				7
8													8
9													9
10													10
11										800.707			11
12													12
13													13
14					800.487					800.717			14
15										800.708			15
16													16
17													17
18						800.957							18
19													19
20													20
21													21
22													22
23	800.430*			800.477									23
24					800.464*								24
25													25
26													26
27						800.897							27
28													28
29					800.477		800.847						29
30							800.851*						30
31													31
TOT	800.430			1600.964	2401.428	1601.854	1601.698		800.747	2402.132			TOT
MEAN	800.430x			800.482x	800.476x	800.927x	800.849x		800.747x	800.711x			MEAN
MAX	800.430			800.487	800.487	800.957	800.851		800.747	800.717			MAX
MIN	800.430			800.477	800.464	800.897	800.847		800.747	800.707			MIN

WATER LEVELS ARE REFERRED TO:
APPROXIMATE GEODETIC DATUM

x - Incomplete Data for Month
I - Ice Level
* - Actual Surveyed Water Level
E - Estimate

SUMMARY FOR THE YEAR 1990

Maximum Observed Daily Water Level: 800.957 Metres on JUN 18
Minimum Observed Daily Water Level: 800.430 Metres on JAN 23

HISTORICAL SUMMARY

Maximum Observed Daily Water Level: 801.099 Metres on 1983.04.30
Minimum Observed Daily Water Level: 800.277 Metres on 1989.10.20

Location: LSD NE Sec. 07 Tp. 072 Rge. 11 W6
Latitude: 55 14'   Longitude: 119 40'

From Goodfare intersection, 3.2 km E on Sec #671, 3.2 km S, "0.2 km W, S to structure.

Gauge Type: None. Level Established by Surveying.
Period of Record: 1987-1990
Hydrographic Survey Map Available? NO
Ducks Unlimited structure constructed in 1982. Geodetic Elevation established 1988.

Approved by JWA on 1991.05.10